



# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 1 of 28

**APPLICANT** : **Empower Tribe Commercial FZE**  
LB181504WS13, Jebel Ali Freezone Dubai, United Arab Emirates

**DATE OF SUBMISSION** : 15 Aug 2024

**TEST PERIOD** : 15 Aug 2024 to 10 Sep 2024

**SAMPLE DESCRIPTION** : Desktop Synthesizers and Sound Modules

Model No. : BQ-10

Trade name: Behringer

**TEST REQUESTED:** Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH

**TEST RESULT:** Refer to following page(s)

**SUMMARY:** According to the specified scope and analytical techniques, the concentration of Pb is >0.1% (w/ w) in certain component(s), the concentration of each other SVHCs is <0.1% (w/ w) in the component(s) of submitted product(s).

EST TECHNOLOGY CO., LTD.

Spark Zhang  
Manager, Chemical Department



RT/ZH

**REMARK**

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86-769) 83081888 Ext. 618 E-mail: gdest@gdest.cn

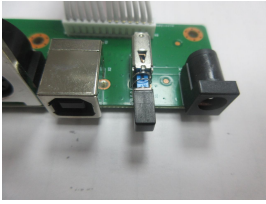
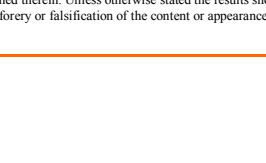
Business Contact: (86-769) 83081888



# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 2 of 28

## 1. Material List

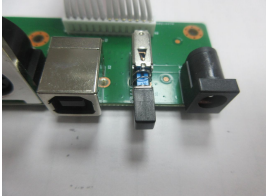
| Test Item(s) | Sample Photo                                                                        | Item / Component Description(s) | Location(s)                   | Style(s) |
|--------------|-------------------------------------------------------------------------------------|---------------------------------|-------------------------------|----------|
| 001          |    | Black coated silvery metal      | Base, sound modules           | -        |
| 002          |                                                                                     | Black rubber                    | Pads, base, sound modules     | -        |
| 003          |                                                                                     | Black coating                   | Coating, cover                | -        |
| 004          |                                                                                     | Silvery metal                   | Cover, sound modules          | -        |
| 005          |   | Black plastic                   | Side cover, sound modules     | -        |
| 006          |                                                                                     | Black coating                   | Coating, board, sound modules | -        |
| 007          |                                                                                     | Black coated silvery metal      | Board, sound modules          | -        |
| 008          |                                                                                     | Cyan metal                      | Screw, PCB, sound modules     | -        |
| 009          |                                                                                     | Black coated silvery metal      | Long screw, sound modules     | -        |
| 010          |                                                                                     | Black coated silvery metal      | Short screw, sound modules    | -        |
| 011          |  | Cyan metal                      | Nut, screw                    | -        |
| 012          |                                                                                     | White printed black plastic     | Rotating button               | -        |
| 013          |                                                                                     | Black plastic                   | Ring, switching               | -        |
| 014          |                                                                                     | White plastic                   | Button                        | -        |
| 015          |  | Translucent rubber              | Cushion, switching            | -        |
| 016          |                                                                                     | Black plastic                   | Case, DC socket               | -        |
| 017          |                                                                                     | Silvery metal                   | Pin, DC socket                | -        |
| 018          |                                                                                     | Black plastic                   | Button, switching             | -        |
| 019          |                                                                                     | Blue plastic                    | Button                        | -        |
| 020          |                                                                                     | Silvery metal                   | Spring, switching             | -        |
| 021          |  | Silvery metal                   | Case, switching               | -        |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 3 of 28

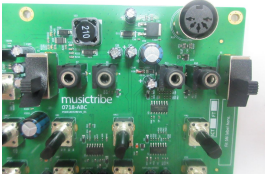
| Test Item(s) | Sample Photo                                                                        | Item / Component Description(s)           | Location(s)              | Style(s) |
|--------------|-------------------------------------------------------------------------------------|-------------------------------------------|--------------------------|----------|
| 022          |    | Black plastic                             | Holder, switching        | -        |
| 023          |                                                                                     | Brown plastic                             | Board, switching         | -        |
| 024          |                                                                                     | Silvery metal                             | Pin, switching           | -        |
| 025          |                                                                                     | Silvery metal                             | Case, USB socket         | -        |
| 026          |                                                                                     | Black plastic                             | Holder, USB socket       | -        |
| 027          |                                                                                     | Silvery metal                             | Pin, USB socket          | -        |
| 028          |   | Silvery metal                             | Case, X4                 | -        |
| 029          |                                                                                     | Black plastic                             | Holder, X4               | -        |
| 030          |                                                                                     | Silvery metal                             | Pin, X4                  | -        |
| 031          |                                                                                     | White printed black plastic               | Case, switching          | -        |
| 032          |                                                                                     | White plastic                             | Button, switching        | -        |
| 033          |  | Coppery metal                             | Contact plate, switching | -        |
| 034          |                                                                                     | Black body                                | SMD U2                   | -        |
| 035          |                                                                                     | Black body                                | SMD diode                | -        |
| 036          |                                                                                     | White/black body                          | SMD resistor             | -        |
| 037          |                                                                                     | Brown body                                | SMD capacitor            | -        |
| 038          |                                                                                     | White plastic                             | Connector                | -        |
| 039          |                                                                                     | Pink printed white soft plastic           | Insulation               | -        |
| 040          |                                                                                     | Silvery metal                             | Wire, insulation         | -        |
| 041          |                                                                                     | Silvery solder                            | Solder, PCB              | -        |
| 042          |                                                                                     | White coated nature printed green plastic | PCB                      | -        |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 4 of 28

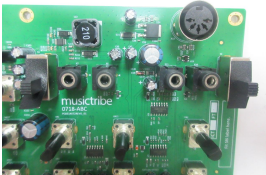
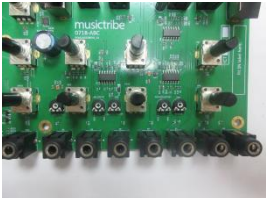
| Test Item(s) | Sample Photo                                                                        | Item / Component Description(s) | Location(s)                   | Style(s) |
|--------------|-------------------------------------------------------------------------------------|---------------------------------|-------------------------------|----------|
| 043          |  | Silvery metal                   | Case, X33                     | -        |
| 044          |                                                                                     | Black plastic                   | Holder, X33                   | -        |
| 045          |                                                                                     | Silvery metal                   | Pin, X33                      | -        |
| 046          |                                                                                     | Blue printed black plastic      | Electrolytic capacitor sleeve | -        |
| 047          |                                                                                     | Silvery metal                   | Electrolytic capacitor shell  | -        |
| 048          |                                                                                     | Black soft plastic              | Rubber seal                   | -        |
| 049          |                                                                                     | Silvery metal                   | Aluminum foil                 | -        |
| 050          |                                                                                     | Brown paper                     | Electrolytic paper            | -        |
| 051          |                                                                                     | Silvery metal                   | Horn, electrolytic capacitor  | -        |
| 052          |                                                                                     | White printed black plastic     | Electrolytic capacitor sleeve | -        |
| 053          |                                                                                     | Black body                      | SMD U24                       | -        |
| 054          |                                                                                     | Silvery metal                   | Pin, SMD U24                  | -        |
| 055          |                                                                                     | Black body                      | SMD diode                     | -        |
| 056          |                                                                                     | Transparent glass               | Glass diode                   | -        |
| 057          |                                                                                     | White/black body                | SMD resistor                  | -        |
| 058          |                                                                                     | Black plastic                   | Button, switching             | -        |
| 059          |                                                                                     | Black plastic                   | Plate, switching              | -        |
| 060          |                                                                                     | Silvery metal                   | Cover, switching              | -        |
| 061          |                                                                                     | Silvery metal                   | Contact plate, switching      | -        |
| 062          |                                                                                     | Brown plastic                   | Board, switching              | -        |
| 063          |                                                                                     | Black plastic                   | Case, X10                     | -        |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 5 of 28

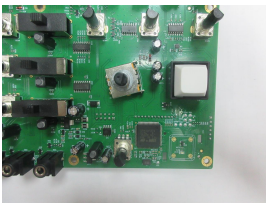
| Test Item(s) | Sample Photo                                                                        | Item / Component Description(s) | Location(s)             | Style(s) |
|--------------|-------------------------------------------------------------------------------------|---------------------------------|-------------------------|----------|
| 064          |    | Silvery metal                   | Ring, X10               | -        |
| 065          |                                                                                     | Silvery metal                   | Contact plate, X10      | -        |
| 066          |                                                                                     | Black body                      | SMD IC                  | -        |
| 067          |                                                                                     | Gray core                       | Core, inductance        | -        |
| 068          |                                                                                     | Coppery metal                   | Coil, inductance        | -        |
| 069          |                                                                                     | Brown body                      | SMD capacitor           | -        |
| 070          |                                                                                     | White body                      | SMD capacitor           | -        |
| 071          |  | Black plastic                   | Head, rotating button   | -        |
| 072          |                                                                                     | Silvery metal                   | Case, rotating button   | -        |
| 073          |                                                                                     | Silvery metal                   | Gasket, rotating button | -        |
| 074          |                                                                                     | Black plastic                   | Holder, rotating button | -        |
| 075          |                                                                                     | Brown plastic                   | Board, rotating button  | -        |
| 076          |                                                                                     | Silvery metal                   | Pin, rotating button    | -        |
| 077          |                                                                                     | Black plastic                   | Holder, VR4             | -        |
| 078          |  | White plastic                   | Holder, VR4             | -        |
| 079          |                                                                                     | Silvery metal                   | Pin, VR4                | -        |
| 080          |                                                                                     | Black/orange body               | SMD resistor            | -        |
| 081          |                                                                                     | Translucent /black plastic      | LED cover               | -        |
| 082          |                                                                                     | Transparent body                | SMD LED                 | -        |
| 083          |                                                                                     | Black body                      | SMD U27                 | -        |
| 084          |                                                                                     | Black body                      | SMD ARM                 | -        |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 6 of 28

| Test Item(s) | Sample Photo                                                                       | Item / Component Description(s)           | Location(s)             | Style(s) |
|--------------|------------------------------------------------------------------------------------|-------------------------------------------|-------------------------|----------|
| 085          |   | Silvery metal                             | Pin, SMD ARM            | -        |
| 086          |                                                                                    | Beige plastic                             | Holder, rotating button | -        |
| 087          |                                                                                    | Gray metal                                | Holder, rotating button | -        |
| 088          |                                                                                    | Gray body                                 | SMD Y1                  | -        |
| 089          |                                                                                    | Gray body                                 | SMD inductance          | -        |
| 090          |  | Black plastic                             | Connector               | -        |
| 091          |                                                                                    | White plastic                             | Connector               | -        |
| 092          |                                                                                    | Silvery solder                            | Solder, PCB             | -        |
| 093          |                                                                                    | White coated nature printed green plastic | PCB                     | -        |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 7 of 28

## 2. Test Result

|                           |                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------|
| Test Method:              | In-House method, Analysis is based on GC, LC, IC, ICP, with various detection techniques and UV. |
| Maximum Allowable Limit : | 0.1% (Each of Listed)                                                                            |

| Test Item(s)                            | Result              |            |      |
|-----------------------------------------|---------------------|------------|------|
|                                         | Detected Analyte(s) | Conc.      | Unit |
| 001+004+007+008+009+010+011+017+020+021 | ND                  | ND         | %    |
| 002+013+015+018+023+048+059+091         | ND                  | ND         | %    |
| 003+006+038+039+046+052+062+071+078+081 | ND                  | ND         | %    |
| 005+012+014+016+026+029+031+032+044+058 | ND                  | ND         | %    |
| 019+022+042+063+074+075+077+086+090+093 | ND                  | ND         | %    |
| 024+025+027+028+030+033+040+041+043+045 | ND                  | ND         | %    |
| 034+035+036+037+053+055+057+066+067+069 | ND                  | ND         | %    |
| 047+049+051+054+060+061+065+068+072+073 | ND                  | ND         | %    |
| 050                                     | ND                  | ND         | %    |
| 056                                     | Pb:<br>Others:      | 0.44<br>ND | %    |
| 064^                                    | ND                  | ND         | %    |
| 070+080+082+083+084+088+089             | ND                  | ND         | %    |
| 076+079+085+087+092                     | ND                  | ND         | %    |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 8 of 28

## Note / Key:

ND = Not detected                      “>” = Greater than  
mg/kg = milligram(s) per kilogram = ppm = part(s) per million  
% = percent                      10000 mg/kg = 1 %  
Detection Limit (%) : See Appendix.

## Remark:

- At the request of client, test(s) was conducted on the certain component(s) of the submitted samples(s) / submitted component(s).
- “^” The above results were transferred from the test data of 019 in EST report ESTC-240506002.



# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 9 of 28

**Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH**

| No. | Substance name                                                                                                                        | CAS No.                                                                                              | EC No.                  | Detection Limit, % | Basis for identification as a SVHC                                                                     |
|-----|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------|--------------------|--------------------------------------------------------------------------------------------------------|
| 1   | Triethyl arsenate*                                                                                                                    | 15606-95-8                                                                                           | 427-700-2               | 0.01               | Carcinogenic                                                                                           |
| 2   | Anthracene                                                                                                                            | 120-12-7                                                                                             | 204-371-1               | 0.01               | PBT                                                                                                    |
| 3   | 4,4'-Diaminodiphenyl methane (MDA)                                                                                                    | 101-77-9                                                                                             | 202-974-4               | 0.01               | Carcinogenic                                                                                           |
| 4   | Dibutyl phthalate (DBP)                                                                                                               | 84-74-2                                                                                              | 201-557-4               | 0.01               | Toxic for reproduction                                                                                 |
| 5   | Cobalt dichloride*                                                                                                                    | 7646-79-9                                                                                            | 231-589-4               | 0.01               | Carcinogenic                                                                                           |
| 6   | Diarsenic pentaoxide*                                                                                                                 | 1303-28-2                                                                                            | 215-116-9               | 0.01               | Carcinogenic                                                                                           |
| 7   | Diarsenic trioxide*                                                                                                                   | 1327-53-3                                                                                            | 215-481-4               | 0.01               | Carcinogenic                                                                                           |
| 8   | Sodium dichromate*                                                                                                                    | 7789-12-0 <sup>(1)</sup> ,<br>10588-01-9 <sup>(2)</sup>                                              | 234-190-3               | 0.01               | Carcinogenic;<br>Mutagenic;<br>Toxic for reproduction                                                  |
| 9   | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)                                                                                    | 81-15-2                                                                                              | 201-329-4               | 0.01               | vPvB                                                                                                   |
| 10  | Bis (2-ethylhexyl) phthalate (DEHP)                                                                                                   | 117-81-7                                                                                             | 204-211-0               | 0.01               | Toxic for reproduction;<br>Equivalent level of concern having probable serious effects to human health |
| 11  | Hexabromo cyclododecane (HBCDD) and all major diastereoisomers identified:<br>$\alpha$ - HBCDD<br>$\beta$ - HBCDD<br>$\gamma$ - HBCDD | 3194-55-6 <sup>(3)</sup> ,<br>25637-99-4 <sup>(4)</sup><br>134237-50-6<br>134237-51-7<br>134237-52-8 | 247-148-4,<br>221-695-9 | 0.01               | PBT                                                                                                    |
| 12  | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)                                                                    | 85535-84-8                                                                                           | 287-476-5               | 0.01               | PBT, vPvB                                                                                              |
| 13  | Bis(tributyltin)oxide (TBTO)**                                                                                                        | 56-35-9                                                                                              | 200-268-0               | 0.01               | PBT                                                                                                    |
| 14  | Lead hydrogen arsenate*                                                                                                               | 7784-40-9                                                                                            | 232-064-2               | 0.01               | Carcinogenic;<br>Toxic for reproduction                                                                |
| 15  | Benzyl butyl phthalate (BBP)                                                                                                          | 85-68-7                                                                                              | 201-622-7               | 0.01               | Toxic for reproduction                                                                                 |
| 16  | 2,4-Dinitrotoluene                                                                                                                    | 121-14-2                                                                                             | 204-450-0               | 0.01               | Carcinogenic                                                                                           |
| 17  | Anthracene oil                                                                                                                        | 90640-80-5                                                                                           | 292-602-7               | 0.01               | Carcinogenic, PBT, vPvB                                                                                |
| 18  | Anthracene oil, anthracene paste, distn. Lights                                                                                       | 91995-17-4                                                                                           | 295-278-5               | 0.01               | Carcinogenic;<br>Mutagenic,<br>PBT, vPvB                                                               |
| 19  | Anthracene oil, anthracene paste, anthracene fraction                                                                                 | 91995-15-2                                                                                           | 295-275-9               | 0.01               | Carcinogenic;<br>Mutagenic,<br>PBT, vPvB                                                               |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 10 of 28

|    |                                                                         |                                                                                       |                          |      |                                                       |
|----|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------|------|-------------------------------------------------------|
| 20 | Anthracene oil, anthracene-low                                          | 90640-82-7                                                                            | 292-604-8                | 0.01 | Carcinogenic;<br>Mutagenic,<br>PBT, vPvB              |
| 21 | Anthracene oil, anthracene paste                                        | 90640-81-6                                                                            | 292-603-2                | 0.01 | Carcinogenic;<br>Mutagenic,<br>PBT, vPvB              |
| 22 | Diisobutyl phthalate                                                    | 84-69-5                                                                               | 201-553-2                | 0.01 | Toxic for reproduction                                |
| 23 | Aluminosilicate, Refractory Ceramic Fibres <sup>*a</sup>                | Index no. 650-017-00-8                                                                |                          | 0.01 | 0.01                                                  |
| 24 | Zirconia Aluminosilicate, Refractory Ceramic Fibres <sup>*b</sup>       | Index no. 650-017-00-8                                                                |                          | 0.01 | 0.01                                                  |
| 25 | Lead chromate <sup>*</sup>                                              | 7758-97-6                                                                             | 231-846-0                | 0.01 | Carcinogenic;<br>Toxic for reproduction               |
| 26 | Lead chromate molybdate sulfate red (C.I. Pigment Red 104) <sup>*</sup> | 12656-85-8                                                                            | 235-759-9                | 0.01 | Carcinogenic;<br>Toxic for reproduction               |
| 27 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) <sup>*</sup>         | 1344-37-2                                                                             | 215-693-7                | 0.01 | Carcinogenic;<br>Toxic for reproduction               |
| 28 | Tris(2-chloroethyl) phosphate                                           | 115-96-8                                                                              | 204-118-5                | 0.01 | Toxic for reproduction                                |
| 29 | Coal tar pitch, high temperature                                        | 65996-93-2                                                                            | 266-028-2                | 0.01 | Carcinogenic, PBT, vPvB                               |
| 30 | Acrylamide                                                              | 79-06-1                                                                               | 201-173-7                | 0.01 | Carcinogenic;<br>Mutagenic                            |
| 31 | Trichloroethylene                                                       | 79-01-6                                                                               | 201-167-4                | 0.01 | Carcinogenic                                          |
| 32 | Boric acid <sup>*</sup>                                                 | 10043-35-3,<br>11113-50-1                                                             | 233-139-2 /<br>234-343-4 | 0.01 | Toxic for reproduction                                |
| 33 | Disodium tetraborate, anhydrous <sup>*</sup>                            | 1330-43-4 <sup>(5)</sup> ,<br>12179-04-3 <sup>(6)</sup> ,<br>1303-96-4 <sup>(7)</sup> | 215-540-4                | 0.01 | Toxic for reproduction                                |
| 34 | Tetraboron disodium heptaoxide, hydrate <sup>*</sup>                    | 12267-73-1                                                                            | 235-541-3                | 0.01 | Toxic for reproduction                                |
| 35 | Sodium chromate <sup>*</sup>                                            | 7775-11-3                                                                             | 231-889-5                | 0.01 | Carcinogenic;<br>Mutagenic;<br>Toxic for reproduction |
| 36 | Potassium chromate <sup>*</sup>                                         | 7789-00-6                                                                             | 232-140-5                | 0.01 | Carcinogenic;<br>Mutagenic                            |
| 37 | Ammonium dichromate <sup>*</sup>                                        | 7789-09-5                                                                             | 232-143-1                | 0.01 | Carcinogenic;<br>Mutagenic;<br>Toxic for reproduction |
| 38 | Potassium dichromate <sup>*</sup>                                       | 7778-50-9                                                                             | 231-906-6                | 0.01 | Carcinogenic;<br>Mutagenic;<br>Toxic for reproduction |
| 39 | Cobalt(II) sulphate <sup>*</sup>                                        | 10124-43-3                                                                            | 233-334-2                | 0.01 | Carcinogenic;<br>Toxic for reproduction               |
| 40 | Cobalt(II) dinitrate <sup>*</sup>                                       | 10141-05-6                                                                            | 233-402-1                | 0.01 | Carcinogenic;<br>Toxic for reproduction               |
| 41 | Cobalt(II) carbonate <sup>*</sup>                                       | 513-79-1                                                                              | 208-169-4                | 0.01 | Carcinogenic;<br>Toxic for reproduction               |
| 42 | Cobalt(II) diacetate <sup>*</sup>                                       | 71-48-7                                                                               | 200-755-8                | 0.01 | Carcinogenic;<br>Toxic for reproduction               |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 11 of 28

|    |                                                                                                                                                 |                              |                             |                              |                                         |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------------------|
| 43 | 2-Methoxyethanol                                                                                                                                | 109-86-4                     | 203-713-7                   | 0.01                         | Toxic for reproduction                  |
| 44 | 2-Ethoxyethanol                                                                                                                                 | 110-80-5                     | 203-804-1                   | 0.01                         | Toxic for reproduction                  |
| 45 | Chromium trioxide*                                                                                                                              | 1333-82-0                    | 215-607-8                   | 0.01                         | Carcinogenic;<br>Mutagenic              |
| 46 | Acid generated from chromium trioxide and their oligomers:<br>Chromic acid*<br>Dichromic acid*<br>Oligomers of chromic acid and dichromic acid* | 7738-94-5<br>13530-68-2<br>- | 231-801-5<br>236-881-5<br>- | 0.01<br>0.01<br>0.01<br>0.01 | Carcinogenic                            |
| 47 | 2-Ethoxyethyl acetate                                                                                                                           | 111-15-9                     | 203-839-2                   | 0.01                         | Toxic for reproduction                  |
| 48 | Strontium Chromate*                                                                                                                             | 7789-06-2                    | 232-142-6                   | 0.01                         | Carcinogenic                            |
| 49 | 1,2-benzenedicarboxylic acid, di-C7-11 branched alkyl ester and linear alkyl ester                                                              | 68515-42-4                   | 271-084-6                   | 0.01                         | Toxic for reproduction                  |
| 50 | Hydrazine                                                                                                                                       | 302-01-2<br>7803-57-8        | 206-114-9                   | 0.01                         | Carcinogenic                            |
| 51 | 1-Methyl-2-pyrrolidone                                                                                                                          | 872-50-4                     | 212-828-1                   | 0.01                         | Toxic for reproduction                  |
| 52 | 1,2,3-trichloropropane                                                                                                                          | 96-18-4                      | 202-486-1                   | 0.01                         | Toxic for reproduction                  |
| 53 | 1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl ester, C7-rich (DIHP)                                                                      | 71888-89-6                   | 276-158-1                   | 0.01                         | Toxic for reproduction                  |
| 54 | Dichromium tris(chromate)*                                                                                                                      | 24613-89-6                   | 246-356-2                   | 0.01                         | Carcinogenic                            |
| 55 | Potassium hydroxyoctaoxodizincatedi-chromate*                                                                                                   | 11103-86-9                   | 234-329-8                   | 0.01                         | Carcinogenic                            |
| 56 | Pentazinc chromate octahydroxide*                                                                                                               | 49663-84-5                   | 256-418-0                   | 0.01                         | Carcinogenic                            |
| 57 | Formaldehyde, oligomeric reaction products with aniline (technical MDA)                                                                         | 25214-70-4                   | 500-036-1                   | 0.01                         | Carcinogenic                            |
| 58 | Bis(2-methoxyethyl) phthalate                                                                                                                   | 117-82-8                     | 204-212-6                   | 0.01                         | Toxic for reproduction                  |
| 59 | 2-Methoxyaniline; o-Anisidine                                                                                                                   | 90-04-0                      | 201-963-1                   | 0.01                         | Carcinogenic                            |
| 60 | 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)                                                                                        | 140-66-9                     | 205-426-2                   | 0.01                         | Equivalent level of concern             |
| 61 | 1,2-Dichloroethane                                                                                                                              | 107-06-2                     | 203-458-1                   | 0.01                         | Carcinogenic                            |
| 62 | Bis(2-methoxyethyl) ether                                                                                                                       | 111-96-6                     | 203-924-4                   | 0.01                         | Toxic for reproduction                  |
| 63 | Arsenic acid*                                                                                                                                   | 7778-39-4                    | 231-901-9                   | 0.01                         | Carcinogenic                            |
| 64 | Calcium arsenate*                                                                                                                               | 7778-44-1                    | 231-904-5                   | 0.01                         | Carcinogenic                            |
| 65 | Trilead diarsenate*                                                                                                                             | 3687-31-8                    | 222-979-5                   | 0.01                         | Carcinogenic;<br>Toxic for reproduction |
| 66 | N,N-dimethylacetamide (DMAC)                                                                                                                    | 127-19-5                     | 204-826-4                   | 0.01                         | Toxic for reproduction                  |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 12 of 28

|    |                                                                                                                                          |            |           |      |                        |
|----|------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|------|------------------------|
| 67 | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)                                                                                             | 101-14-4   | 202-918-9 | 0.01 | Carcinogenic           |
| 68 | Phenolphthalein                                                                                                                          | 77-09-8    | 201-004-7 | 0.01 | Carcinogenic           |
| 69 | Lead azide, Lead diazide*                                                                                                                | 13424-46-9 | 236-542-1 | 0.01 | Toxic for reproduction |
| 70 | Lead styphnate*                                                                                                                          | 15245-44-0 | 239-290-0 | 0.01 | Toxic for reproduction |
| 71 | Lead dipicrate*                                                                                                                          | 6477-64-1  | 229-335-2 | 0.01 | Toxic for reproduction |
| 72 | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)                                                                                        | 112-49-2   | 203-977-3 | 0.01 | Toxic for reproduction |
| 73 | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)                                                                              | 110-71-4   | 203-794-9 | 0.01 | Toxic for reproduction |
| 74 | Diboron trioxide*                                                                                                                        | 1303-86-2  | 215-125-8 | 0.01 | Toxic for reproduction |
| 75 | Formamide                                                                                                                                | 75-12-7    | 200-842-0 | 0.01 | Toxic for reproduction |
| 76 | Lead(II) bis(methanesulfonate)*                                                                                                          | 17570-76-2 | 401-750-5 | 0.01 | Toxic for reproduction |
| 77 | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) <sup>§</sup>                                                     | 2451-62-9  | 219-514-3 | 0.01 | Mutagenic              |
| 78 | β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) <sup>§</sup>                                     | 59653-74-6 | 423-400-0 | 0.01 | Mutagenic              |
| 79 | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)                                                                                   | 90-94-8    | 202-027-5 | 0.01 | Carcinogenic           |
| 80 | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)                                                                           | 101-61-1   | 202-959-2 | 0.01 | Carcinogenic           |
| 81 | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)                  | 548-62-9   | 208-953-6 | 0.01 | Carcinogenic           |
| 82 | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) | 2580-56-5  | 219-943-6 | 0.01 | Carcinogenic           |
| 83 | α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)                                             | 6786-83-0  | 229-851-8 | 0.01 | Carcinogenic           |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 13 of 28

|    |                                                                                                                                                                                                                                                                                    |                                                |                                            |      |                                                                                 |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------|------|---------------------------------------------------------------------------------|
| 84 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol                                                                                                                                                                                                                            | 561-41-1                                       | 209-218-2                                  | 0.01 | Carcinogenic                                                                    |
| 85 | Bis(pentabromophenyl) ether (DecaBDE)                                                                                                                                                                                                                                              | 1163-19-5                                      | 214-604-9                                  | 0.01 | Persistent, bioaccumulative and toxic; very persistent and very bioaccumulative |
| 86 | N,N-dimethylformamide; dimethyl formamide                                                                                                                                                                                                                                          | 68-12-2                                        | 200-679-5                                  | 0.01 | Toxic for reproduction                                                          |
| 87 | Methoxy acetic acid                                                                                                                                                                                                                                                                | 625-45-6                                       | 210-894-6                                  | 0.01 | Toxic for reproduction ; equivalent level of concern                            |
| 88 | Dibutyltin dichloride (DBT) <sup>db</sup>                                                                                                                                                                                                                                          | 683-18-1                                       | 211-670-0                                  | 0.01 | Toxic for reproduction                                                          |
| 89 | 1,2-Diethoxyethane                                                                                                                                                                                                                                                                 | 629-14-1                                       | 211-076-1                                  | 0.01 | Toxic for reproduction                                                          |
| 90 | Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride                                                                                                                                                  | 85-42-7, 13149-00-3, 14166-21-3                | 201-604-9, 236-086-3, 238-009-9            | 0.01 | Equivalent level of concern                                                     |
| 91 | Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride                                                                                                                                | 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9 | 247-094-1, 243-072-0, 256-356-4, 260-566-1 | 0.01 | Equivalent level of concern                                                     |
| 92 | 4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof | -                                              | -                                          | 0.01 | Equivalent level of concern                                                     |
| 93 | Heptacosafuorotetradecanoic acid                                                                                                                                                                                                                                                   | 376-06-7                                       | 206-803-4                                  | 0.01 | Very persistent and very bioaccumulative                                        |
| 94 | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear <sup>+</sup>                                                                                                                                                                                                      | 84777-06-0                                     | 284-032-2                                  | 0.01 | Toxic for reproduction                                                          |
| 95 | Henicosafuoroundecanoic acid                                                                                                                                                                                                                                                       | 2058-94-8                                      | 218-165-4                                  | 0.01 | Very persistent and very bioaccumulative                                        |
| 96 | N-pentyl-isopentylphthalate (iPnPP) <sup>+</sup>                                                                                                                                                                                                                                   | 776297-69-9                                    | -                                          | 0.01 | Toxic for reproduction                                                          |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 14 of 28

|     |                                                                                                                                 |             |           |      |                                          |
|-----|---------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|------|------------------------------------------|
| 97  | Pentacosafuorotridecanoic acid                                                                                                  | 72629-94-8  | 276-745-2 | 0.01 | Very persistent and very bioaccumulative |
| 98  | 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues | -           | -         | 0.01 | Equivalent level of concern              |
| 99  | Tricosafuorododecanoic acid                                                                                                     | 307-55-1    | 206-203-2 | 0.01 | Very persistent and very bioaccumulative |
| 100 | Lead bis(tetrafluoroborate)*                                                                                                    | 13814-96-5  | 237-486-0 | 0.01 | Toxic for reproduction                   |
| 101 | Lead tetroxide (orange lead)*                                                                                                   | 1314-41-6   | 215-235-6 | 0.01 | Toxic for reproduction                   |
| 102 | Diethyl sulphate                                                                                                                | 64-67-5     | 200-589-6 | 0.01 | Carcinogenic; Mutagenic                  |
| 103 | Dinoseb                                                                                                                         | 88-85-7     | 201-861-7 | 0.01 | Toxic for reproduction                   |
| 104 | Lead Titanium Zirconium Oxide*                                                                                                  | 12626-81-2  | 235-727-4 | 0.01 | Toxic for reproduction                   |
| 105 | Acetic acid, lead salt, basic*                                                                                                  | 51404-69-4  | 257-175-3 | 0.01 | Toxic for reproduction                   |
| 106 | Furan                                                                                                                           | 110-00-9    | 203-727-3 | 0.01 | Carcinogenic                             |
| 107 | N-methylacetamide                                                                                                               | 79-16-3     | 201-182-6 | 0.01 | Toxic for reproduction                   |
| 108 | o-Toluidine; 2-Aminotoluene                                                                                                     | 95-53-4     | 202-429-0 | 0.01 | Carcinogenic                             |
| 109 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine                                                                              | 143860-04-2 | 421-150-7 | 0.01 | Toxic for reproduction                   |
| 110 | 4,4'-oxydianiline and its salts                                                                                                 | 101-80-4    | 202-977-0 | 0.01 | Carcinogenic; Mutagenic                  |
| 111 | [Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)*                                                                           | 69011-06-9  | 273-688-5 | 0.01 | Toxic for reproduction                   |
| 112 | Lead titanium trioxide*                                                                                                         | 12060-00-3  | 235-038-9 | 0.01 | Toxic for reproduction                   |
| 113 | Lead oxide sulphate*                                                                                                            | 12036-76-9  | 234-853-7 | 0.01 | Toxic for reproduction                   |
| 114 | Lead dinitrate*                                                                                                                 | 10099-74-8  | 233-245-9 | 0.01 | Toxic for reproduction                   |
| 115 | 4-Aminoazobenzene; 4-Phenylazoaniline                                                                                           | 60-09-3     | 200-453-6 | 0.01 | Carcinogenic                             |
| 116 | Lead cyanamidate*                                                                                                               | 20837-86-9  | 244-073-9 | 0.01 | Toxic for reproduction                   |
| 117 | Tetralead trioxide sulphate*                                                                                                    | 12202-17-4  | 235-380-9 | 0.01 | Toxic for reproduction                   |
| 118 | 4-methyl-m-phenylenediamine (2,4-toluene-diamine)                                                                               | 95-80-7     | 202-453-1 | 0.01 | Carcinogenic                             |
| 119 | Pyrochlore, antimony lead yellow*                                                                                               | 8012-00-8   | 232-382-1 | 0.01 | Toxic for reproduction                   |
| 120 | Trilead bis(carbonate)dihydroxide (basic lead carbonate)*                                                                       | 1319-46-6   | 215-290-6 | 0.01 | Toxic for reproduction                   |
| 121 | Dimethyl sulphate                                                                                                               | 77-78-1     | 201-058-1 | 0.01 | Carcinogenic                             |
| 122 | Dioxobis(stearato)trilead*                                                                                                      | 12578-12-0  | 235-702-8 | 0.01 | Toxic for reproduction                   |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 15 of 28

|     |                                                                                                                                                                                                                                                                                                                                     |            |           |      |                                              |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|------|----------------------------------------------|
| 123 | Silicic acid, barium salt, lead-doped*                                                                                                                                                                                                                                                                                              | 68784-75-8 | 272-271-5 | 0.01 | Toxic for reproduction                       |
| 124 | Biphenyl-4-ylamine                                                                                                                                                                                                                                                                                                                  | 92-67-1    | 202-177-1 | 0.01 | Carcinogenic                                 |
| 125 | Lead oxide (lead monoxide)*                                                                                                                                                                                                                                                                                                         | 1317-36-8  | 215-267-0 | 0.01 | Toxic for reproduction                       |
| 126 | Pentalead tetraoxide sulphate*                                                                                                                                                                                                                                                                                                      | 12065-90-6 | 235-067-7 | 0.01 | Toxic for reproduction                       |
| 127 | Propylene oxide;<br>1,2-epoxypropane;<br>methyloxirane                                                                                                                                                                                                                                                                              | 75-56-9    | 200-879-2 | 0.01 | Carcinogenic;<br>Mutagenic                   |
| 128 | Silicic acid, lead salt*                                                                                                                                                                                                                                                                                                            | 11120-22-2 | 234-363-3 | 0.01 | Toxic for reproduction                       |
| 129 | Trilead dioxide phosphonate*                                                                                                                                                                                                                                                                                                        | 12141-20-7 | 235-252-2 | 0.01 | Toxic for reproduction                       |
| 130 | o-aminoazotoluene                                                                                                                                                                                                                                                                                                                   | 97-56-3    | 202-591-2 | 0.01 | Carcinogenic                                 |
| 131 | 1-bromopropane                                                                                                                                                                                                                                                                                                                      | 106-94-5   | 203-445-0 | 0.01 | Toxic for reproduction                       |
| 132 | 6-methoxy-m-toluidine (p-cresidine)                                                                                                                                                                                                                                                                                                 | 120-71-8   | 204-419-1 | 0.01 | Carcinogenic                                 |
| 133 | 4,4'-methylenedi-o-toluidine                                                                                                                                                                                                                                                                                                        | 838-88-0   | 212-658-8 | 0.01 | Carcinogenic                                 |
| 134 | Tetraethyllead*                                                                                                                                                                                                                                                                                                                     | 78-00-2    | 201-075-4 | 0.01 | Toxic for reproduction                       |
| 135 | Sulfurous acid, lead salt, dibasic*                                                                                                                                                                                                                                                                                                 | 62229-08-7 | 263-467-1 | 0.01 | Toxic for reproduction                       |
| 136 | Fatty acids, C16-18, lead salts*                                                                                                                                                                                                                                                                                                    | 91031-62-8 | 292-966-7 | 0.01 | Toxic for reproduction                       |
| 137 | Diisopentylphthalate <sup>+</sup>                                                                                                                                                                                                                                                                                                   | 605-50-5   | 210-088-4 | 0.01 | Toxic for reproduction                       |
| 138 | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))                                                                                                                                                                                                                                                                                   | 123-77-3   | 204-650-8 | 0.01 | Equivalent level of concern                  |
| 139 | Cadmium*                                                                                                                                                                                                                                                                                                                            | 7440-43-9  | 231-152-8 | 0.01 | Carcinogenic;<br>Equivalent level of concern |
| 140 | Cadmium oxide*                                                                                                                                                                                                                                                                                                                      | 1306-19-0  | 215-146-2 | 0.01 | Carcinogenic;<br>Equivalent level of concern |
| 141 | Dipentyl phthalate (DPP) <sup>+</sup>                                                                                                                                                                                                                                                                                               | 131-18-0   | 205-017-9 | 0.01 | Toxic for reproduction                       |
| 142 | 4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof] | -          | -         | 0.01 | Equivalent level of concern                  |
| 143 | Ammonium pentadecafluorooctanoate (APFO) <sup>#</sup>                                                                                                                                                                                                                                                                               | 3825-26-1  | 223-320-4 | 0.01 | Toxic for reproduction; PBT                  |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 16 of 28

|     |                                                                                                                                                      |            |                      |      |                                                                                                                              |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------|------|------------------------------------------------------------------------------------------------------------------------------|
| 144 | Pentadecafluorooctanoic acid (PFOA) <sup>‡</sup>                                                                                                     | 335-67-1   | 206-397-9            | 0.01 | Toxic for reproduction; PBT                                                                                                  |
| 145 | Cadmium sulphide*                                                                                                                                    | 1306-23-6  | 215-147-8            | 0.01 | Carcinogenic; Equivalent level of concern                                                                                    |
| 146 | Dihexyl phthalate                                                                                                                                    | 84-75-3    | 201-559-5            | 0.01 | Toxic for reproduction                                                                                                       |
| 147 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)                                           | 573-58-0   | 209-358-4            | 0.01 | Carcinogenic                                                                                                                 |
| 148 | Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38) | 1937-37-7  | 217-710-3            | 0.01 | Carcinogenic                                                                                                                 |
| 149 | Imidazolidine-2-thione (2-imidazoline-2-thiol)                                                                                                       | 96-45-7    | 202-506-9            | 0.01 | Toxic for reproduction                                                                                                       |
| 150 | Lead di(acetate)*                                                                                                                                    | 301-04-2   | 206-104-4            | 0.01 | Toxic for reproduction                                                                                                       |
| 151 | Trixylyl phosphate                                                                                                                                   | 25155-23-1 | 246-677-8            | 0.01 | Toxic for reproduction                                                                                                       |
| 152 | Cadmium chloride*                                                                                                                                    | 10108-64-2 | 233-296-7            | 0.01 | Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health |
| 153 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear <sup>++</sup>                                                                       | 68515-50-4 | 271-093-5            | 0.01 | Toxic for reproduction                                                                                                       |
| 154 | Sodium peroxometaborate*                                                                                                                             | 7632-04-4  | 231-556-4            | 0.01 | Toxic for reproduction                                                                                                       |
| 155 | Sodium perborate; perboric acid, sodium salt*                                                                                                        | -          | 239-172-9; 234-390-0 | 0.01 | Toxic for reproduction                                                                                                       |
| 156 | Cadmium fluoride*                                                                                                                                    | 7790-79-6  | 232-222-0            | 0.01 | Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health |

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# Test Report

Report No. ESTC-240815004(R)

Date: 6 Nov 2024

Page 17 of 28

|     |                                                                                                                                                                                                                                                                                                                 |                           |                         |      |                                                                                                                                                   |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 157 | Cadmium sulphate*                                                                                                                                                                                                                                                                                               | 10124-36-4;<br>31119-53-6 | 233-331-6               | 0.01 | Carcinogenic;<br>Mutagenic; Toxic for<br>Reproduction;<br>Equivalent level of<br>concern having<br>probable serious<br>effects to human<br>health |
| 158 | 2-benzotriazol-2-yl-4,6-di-<br>tert-butylphenol (UV-320)                                                                                                                                                                                                                                                        | 3846-71-7                 | 223-346-6               | 0.01 | PBT;<br>vPvB                                                                                                                                      |
| 159 | 2-(2H-benzotriazol-2-yl)-4,6-<br>ditertpentylphenol (UV-328)                                                                                                                                                                                                                                                    | 25973-55-1                | 247-384-8               | 0.01 | PBT;<br>vPvB                                                                                                                                      |
| 160 | 2-ethylhexyl 10-ethyl-4,4-<br>dioctyl-7-oxo-8-oxa-3,5-<br>dithia-4-stannatetradecanoate<br>(DOTE) <sup>db</sup>                                                                                                                                                                                                 | 15571-58-1                | 239-622-4               | 0.01 | Toxic for<br>Reproduction                                                                                                                         |
| 161 | Reaction mass of 2-<br>ethylhexyl 10-ethyl-4,4-<br>dioctyl-7-oxo-8-oxa-3,5-<br>dithia-4-stannatetradecanoate<br>and 2-ethylhexyl 10-ethyl-4-<br>[[2-[(2-ethylhexyl)oxy]-2-<br>oxoethyl]thio]-4-octyl-7-oxo-<br>8-oxa-3,5-dithia-4-<br>stannatetradecanoate<br>(reaction mass of DOTE and<br>MOTE) <sup>db</sup> | -                         | -                       | 0.01 | Toxic for<br>Reproduction                                                                                                                         |
| 162 | 1,2-benzenedicarboxylic acid,<br>di-C6-10-alkyl esters; 1,2-<br>benzenedicarboxylic acid,<br>mixed decyl and hexyl and<br>octyl diesters with ≥ 0.3% of<br>dihexyl phthalate (EC No.<br>201-559-5)                                                                                                              | 68515-51-5;<br>68648-93-1 | 271-094-0;<br>272-013-1 | 0.01 | Toxic for reproduction                                                                                                                            |
| 163 | 5-sec-butyl-2-(2,4-<br>dimethylcyclohex-3-en-1-yl)-<br>5-methyl-1,3-dioxane [1], 5-<br>sec-butyl-2-(4,6-<br>dimethylcyclohex-3-en-1-yl)-<br>5-methyl-1,3-dioxane [2]<br>[covering any of the<br>individual isomers of [1] and<br>[2] or any combination<br>thereof]                                             | -                         | -                       | 0.01 | Very persistent and<br>very bioaccumulative                                                                                                       |
| 164 | 1,3-propanesultone                                                                                                                                                                                                                                                                                              | 1120-71-4                 | 214-317-9               | 0.01 | Carcinogenic                                                                                                                                      |
| 165 | 2,4-di-tert-butyl-6-(5-<br>chlorobenzotriazol-2-<br>yl)phenol (UV-327)                                                                                                                                                                                                                                          | 3864-99-1                 | 223-383-8               | 0.01 | vPvB                                                                                                                                              |
| 166 | 2-(2H-benzotriazol-2-yl)-4-<br>(tert-butyl)-6-(sec-<br>butyl)phenol (UV-350)                                                                                                                                                                                                                                    | 36437-37-3                | 253-037-1               | 0.01 | vPvB                                                                                                                                              |
| 167 | Nitrobenzene                                                                                                                                                                                                                                                                                                    | 98-95-3                   | 202-716-0               | 0.01 | Toxic for reproduction                                                                                                                            |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 18 of 28

|     |                                                                                                                                                                                                                                                                                                   |                                       |                                            |      |                                                                            |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------|------|----------------------------------------------------------------------------|
| 168 | Perfluorononan-1-oic acid acid and its sodium and ammonium salts                                                                                                                                                                                                                                  | 375-95-1;<br>21049-39-8;<br>4149-60-4 | 206-801-3                                  | 0.01 | Toxic for reproduction; PBT                                                |
| 169 | Benzo[def]chrysene (Benzo[a]pyrene)                                                                                                                                                                                                                                                               | 50-32-8                               | 200-028-5                                  | 0.01 | Carcinogenic ; Mutagenic ; Toxic for reproduction; PBT ; vPvB              |
| 170 | 4,4'-isopropylidenediphenol (bisphenol A; BPA)                                                                                                                                                                                                                                                    | 80-05-7                               | 201-245-8                                  | 0.01 | Toxic for reproduction                                                     |
| 171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts                                                                                                                                                                                                                              | 335-76-2<br>3830-45-3<br>3108-42-7    | 206-400-3<br>-<br>221-470-5                | 0.01 | Toxic for reproduction; PBT                                                |
| 172 | p-(1,1-dimethylpropyl)phenol                                                                                                                                                                                                                                                                      | 80-46-6                               | 201-280-9                                  | 0.01 | Equivalent level of concern having probable serious effects to environment |
| 173 | 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] | -                                     | -                                          | 0.01 | Equivalent level of concern having probable serious effects to environment |
| 174 | Perfluorohexane-1-sulphonic acid and its salts                                                                                                                                                                                                                                                    | 335-46-4                              | 206-587-1                                  | 0.01 | vPvB                                                                       |
| 175 | Dechlorane Plus(TM) and reaction products of 1,3,4-thiadiazolidine-2,5-dithione                                                                                                                                                                                                                   | -                                     | 13560-89-9;<br>135821-74-8;<br>135821-03-3 | 0.01 | vPvB                                                                       |
| 176 | benz[a]anthracene                                                                                                                                                                                                                                                                                 | 200-280-6                             | 56-55-3                                    | 0.01 | PBT<br>vPvB                                                                |
| 177 | cadmium nitrate                                                                                                                                                                                                                                                                                   | 233-710-6                             | 10325-94-7                                 | 0.01 | Carcinogenic; Mutagenic                                                    |
| 178 | cadmium carbonate                                                                                                                                                                                                                                                                                 | 208-168-9                             | 513-76-0                                   | 0.01 | Carcinogenic; Mutagenic                                                    |
| 179 | cadmium hydroxide                                                                                                                                                                                                                                                                                 | 244-168-5                             | 21041-95-2                                 | 0.01 | Carcinogenic; Mutagenic                                                    |
| 180 | chrysene                                                                                                                                                                                                                                                                                          | 205-923-4                             | 218-01-9                                   | 0.01 | PBT<br>vPvB                                                                |
| 181 | ormaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4 heptylphenol, branched and linear]                                                                                                                                                                                  | -                                     | -                                          | 0.01 | Environmental endocrine disruptors                                         |
| 182 | Octamethylcyclotetrasiloxane (D4)                                                                                                                                                                                                                                                                 | 556-67-2                              | 209-136-7                                  | 0.01 | PBT<br>vPvB                                                                |
| 183 | Decamethylcyclopentasiloxane (D5)                                                                                                                                                                                                                                                                 | 541-02-6                              | 208-764-9                                  | 0.01 | PBT<br>vPvB                                                                |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 19 of 28

|     |                                                                                          |                         |           |      |                                                                                                                                                                                                                            |
|-----|------------------------------------------------------------------------------------------|-------------------------|-----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 184 | Dodecamethylcyclohexasiloxane (D6)                                                       | 540-97-6                | 208-762-8 | 0.01 | PBT<br>vPvB                                                                                                                                                                                                                |
| 185 | Lead                                                                                     | 7439-92-1               | 231-100-4 | 0.01 | Toxic for reproduction                                                                                                                                                                                                     |
| 186 | Disodium octaborate                                                                      | 12008-41-2              | 234-541-0 | 0.01 | Toxic for reproduction                                                                                                                                                                                                     |
| 187 | Benzo[ghi]perylene                                                                       | 191-24-2                | 205-883-8 | 0.01 | PBT<br>vPvB                                                                                                                                                                                                                |
| 188 | Terphenyl, hydrogenated                                                                  | 61788-32-7              | 262-967-7 | 0.01 | vPvB                                                                                                                                                                                                                       |
| 189 | Terphenyl, hydrogenated (EDA)                                                            | 107-15-3                | 203-468-6 | 0.01 | Respiratory sensitising properties                                                                                                                                                                                         |
| 190 | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)              | 552-30-7                | 209-008-0 | 0.01 | Respiratory sensitising properties                                                                                                                                                                                         |
| 191 | Dicyclohexyl phthalate (DCHP)                                                            | 84-61-7                 | 201-545-9 | 0.01 | Toxic for reproduction<br>Endocrine disrupting properties                                                                                                                                                                  |
| 192 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one                            | 15087-24-8              | 239-139-9 | 0.01 | Endocrine disrupting properties (Article 57(f) - environment)                                                                                                                                                              |
| 193 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane                                                | 6807-17-6               | 401-720-1 | 0.01 | Toxic for reproduction (Article 57c)                                                                                                                                                                                       |
| 194 | Benzo[k]fluoranthene                                                                     | 207-08-9                | 205-916-6 | 0.01 | Carcinogenic (Article 57a)<br>PBT (Article 57d)<br>vPvB (Article 57e)                                                                                                                                                      |
| 195 | Fluoranthene                                                                             | 206-44-0;<br>93951-69-0 | 205-912-4 | 0.01 | PBT (Article 57d)<br>vPvB (Article 57e)                                                                                                                                                                                    |
| 196 | Phenanthrene                                                                             | 85-01-8                 | 201-581-5 | 0.01 | vPvB (Article 57e)                                                                                                                                                                                                         |
| 197 | Pyrene                                                                                   | 129-00-0;<br>1718-52-1  | 204-927-3 | 0.01 | PBT (Article 57d)<br>vPvB (Article 57e)                                                                                                                                                                                    |
| 198 | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides | -                       | -         | 0.01 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)<br>Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) |
| 199 | 2-methoxyethyl acetate                                                                   | 110-49-6                | 203-772-9 | 0.01 | Toxic for reproduction (Article 57c)                                                                                                                                                                                       |
| 200 | 4-tert-butylphenol                                                                       | 98-54-4                 | 202-679-0 | 0.01 | Endocrine disrupting properties (Article 57(f) - environment)                                                                                                                                                              |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 20 of 28

|     |                                                                                                                                                                                                                                                                                      |            |             |      |                                                                                                                                                                                                                            |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 201 | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)                                                                                                                                                         | -          | -           | 0.01 | Endocrine disrupting properties (Article 57(f) - environment)                                                                                                                                                              |
| 202 | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone                                                                                                                                                                                                                                  | 404-360-3  | 119313-12-1 | 0.01 | Toxic for reproduction                                                                                                                                                                                                     |
| 203 | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one                                                                                                                                                                                                                             | 71868-10-5 | 400-600-6   | 0.01 | Toxic for reproduction                                                                                                                                                                                                     |
| 204 | Diisohexyl phthalate                                                                                                                                                                                                                                                                 | 71850-09-4 | 276-090-2   | 0.01 | Toxic for reproduction                                                                                                                                                                                                     |
| 205 | Perfluorobutane sulfonic acid (PFBS) and its salts                                                                                                                                                                                                                                   | /          | /           | 0.01 | Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health)<br>Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) |
| 206 | 1-vinylimidazole                                                                                                                                                                                                                                                                     | 1072-63-5  | 214-012-0   | 0.01 | Toxic for reproduction (Article 57c)                                                                                                                                                                                       |
| 207 | 2-methylimidazole                                                                                                                                                                                                                                                                    | 693-98-1   | 223-383-8   | 0.01 | Toxic for reproduction (Article 57c)                                                                                                                                                                                       |
| 208 | Butyl 4-hydroxybenzoate                                                                                                                                                                                                                                                              | 94-26-8    | 253-037-1   | 0.01 | Endocrine disrupting properties (Article 57(f) – human health)                                                                                                                                                             |
| 209 | Dibutylbis(pentane-2,4-dionato-O,O')tin                                                                                                                                                                                                                                              | 22673-19-4 | 201-545-9   | 0.01 | Toxic for reproduction (Article 57c)                                                                                                                                                                                       |
| 210 | Bis(2-(2-methoxyethoxy)ethyl)ether                                                                                                                                                                                                                                                   | 143-24-8   | 205-594-7   | 0.01 | Toxic for reproduction (Article 57c)                                                                                                                                                                                       |
| 211 | Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety<br>dioctyl tin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs. | /          | /           | 0.01 | Toxic for reproduction (Article 57c)                                                                                                                                                                                       |

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# Test Report

Report No. ESTC-240815004(R)

Date: 6 Nov 2024

Page 21 of 28

|     |                                                                                                                                                                                              |                                                                          |                                       |      |                                                                                                                                                                                         |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 212 | 1,4-dioxane                                                                                                                                                                                  | 204-661-8                                                                | 123-91-1                              | 0.01 | Carcinogenic;<br>Equivalent level of concern having probable serious effects to human health; human;<br>Equivalent level of concern having probable serious effects to the environment; |
| 213 | 2,2bis(bromomethyl)propane 1,3-diol (BMP)<br>2,2-dimethylpropan-1-ol, tribromo derivative/ 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)<br>2,3-dibromo-1-propanol (2,3-DBPA)              | 3296-90-0,<br>36483-57-5,<br>1522-92-5,<br>96-13-9                       | 221-967-7,<br>253-057-0,<br>202-480-9 | 0.01 | Carcinogenic                                                                                                                                                                            |
| 214 | 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers                                                                                                                       | 75166-31-3,<br>80-54-6,<br>75166-30-2                                    | 201-289-8                             | 0.01 | Toxic for reproduction                                                                                                                                                                  |
| 215 | 4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)                                                                                                                                           | 77-40-7                                                                  | 201-025-1                             | 0.01 | Endocrine disrupting properties; Endocrine disrupting properties                                                                                                                        |
| 216 | Glutaral                                                                                                                                                                                     | 111-30-8                                                                 | 203-856-5                             | 0.01 | Respiratory sensitising properties                                                                                                                                                      |
| 217 | Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]          | 1372804-76-6,<br>85535-85-9,<br>198840-65-2                              | 287-477-0,<br>950-299-5               | 0.01 | PBT; vPvB                                                                                                                                                                               |
| 218 | Orthoboric acid, sodium salt                                                                                                                                                                 | 25747-83-5,<br>22454-04-2,<br>14312-40-4,<br>1333-73-9,<br>13840-56-7    | 238-253-6,<br>215-604-1,<br>237-560-2 | 0.01 | Toxic for reproduction                                                                                                                                                                  |
| 219 | Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP) | 210555-94-5,<br>27147-75-7,<br>121158-58-5,<br>74499-35-7,<br>57427-55-1 | 310-154-3                             | 0.01 | Toxic for reproduction;<br>Endocrine disrupting properties; Endocrine disrupting properties                                                                                             |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 22 of 28

|     |                                                                                                                                                                  |             |           |      |                                                                                           |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|------|-------------------------------------------------------------------------------------------|
| 220 | (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)           | -           | -         | 0.01 | Endocrine disrupting properties                                                           |
| 221 | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol                                                                                                                     | 119-47-1    | 204-327-1 | 0.01 | Toxic for reproduction                                                                    |
| 222 | S-(tricyclo(5.2.1.0 <sup>2</sup> ,6)deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate | 255881-94-8 | 401-850-9 | 0.01 | PBT                                                                                       |
| 223 | tris(2-methoxyethoxy)vinylsilane                                                                                                                                 | 1067-53-4   | 213-934-0 | 0.01 | Toxic for reproduction                                                                    |
| 224 | N-(hydroxymethyl)acrylamide                                                                                                                                      | 924-42-5    | 213-103-2 | 0.01 | Carcinogenic; Mutagenic                                                                   |
| 225 | 1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]                                                                                                         | 37853-59-1  | 253-692-3 | 0.01 | vPvB                                                                                      |
| 226 | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol                                                                                                                 | 79-94-7     | 201-236-9 | 0.01 | Carcinogenic                                                                              |
| 227 | 4,4'-sulphonyldiphenol                                                                                                                                           | 80-09-1     | 201-250-5 | 0.01 | Toxic for reproduction; Endocrine disrupting properties; Endocrine disrupting properties; |
| 228 | Barium diboron tetraoxide                                                                                                                                        | 13701-59-2  | 237-222-4 | 0.01 | Toxic for reproduction                                                                    |
| 229 | Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof                                                         | -           | -         | 0.01 | vPvB                                                                                      |
| 230 | Isobutyl 4-hydroxybenzoate                                                                                                                                       | 4274-02-3   | 224-208-8 | 0.01 | Endocrine disrupting properties                                                           |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 23 of 28

|     |                                                                                                                                                               |             |           |      |                                                                                                                                                                                                |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 231 | Melamine                                                                                                                                                      | 108-78-1    | 203-615-4 | 0.01 | Equivalent level of concern having probable serious effects to human health; Equivalent level of concern having probable serious effects to the environment                                    |
| 232 | Perfluoroheptanoic acid and its salts                                                                                                                         | -           | -         | 0.01 | Toxic for reproduction; PBT; vPvB; Equivalent level of concern having probable serious effects to human health; Equivalent level of concern having probable serious effects to the environment |
| 233 | reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine | -           | 473-390-7 | 0.01 | vPvB                                                                                                                                                                                           |
| 234 | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide                                                                                                               | 75980-60-8  | 278-355-8 | 0.01 | Toxic for reproduction                                                                                                                                                                         |
| 235 | Bis(4-chlorophenyl) sulphone                                                                                                                                  | 80-07-9     | 201-247-9 | 0.01 | vPvB                                                                                                                                                                                           |
| 236 | 2,4,6-tri-tert-butylphenol                                                                                                                                    | 732-26-3    | 211-989-5 | 0.01 | Toxic for reproduction; PBT                                                                                                                                                                    |
| 237 | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)                                                                                          | 3147-75-9   | 221-573-5 | 0.01 | vPvB                                                                                                                                                                                           |
| 238 | 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one                                                                          | 119344-86-4 | 438-340-0 | 0.01 | Toxic for reproduction (Article 57c)                                                                                                                                                           |
| 239 | Bumetrizole (UV-326)                                                                                                                                          | 3896-11-5   | 223-445-4 | 0.01 | vPvB                                                                                                                                                                                           |
| 240 | Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol                                                                                | -           | 700-960-7 | 0.01 | vPvB                                                                                                                                                                                           |

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# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 24 of 28

|     |                                                   |         |           |      |                        |
|-----|---------------------------------------------------|---------|-----------|------|------------------------|
| 241 | Bis( $\alpha,\alpha$ -dimethylbenzyl)<br>peroxide | 80-43-3 | 201-279-3 | 0.01 | Toxic for reproduction |
|-----|---------------------------------------------------|---------|-----------|------|------------------------|

- (1) CAS no. 7789-12-0 refers to sodium dichromate dihydrate  
(2) CAS no. 10588-01-9 refers to anhydrous sodium dichromate  
(3) CAS no. 3194-55-6 refers to a specific HBCDD - 1,2,5,6,9,10-hexabromocyclododecane  
(4) CAS no. 25637-99-4 refers to unspecific HBCDD isomer composition  
(5) CAS no. 1330-43-4 refers to disodium tetraborate, anhydrous  
(6) CAS no. 12179-04-3 refers to sodium tetraborate, pentahydrate  
(7) CAS no. 1303-96-4 refers to sodium tetraborate, decahydrate



# Test Report

Report No. ESTC-240815004(R)  
Date: 6 Nov 2024  
Page 25 of 28

*Remark:*

- The list of Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH and is summarized in table of appendix.

The table above only shows detected SVHC, and SVHC that below RL are not reported.

Please refer to Appendix for the full list of tested SVHC.

\*Result is based on the heavy metal or inorganic element concentration. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.

\*\*Result is identified by tributyltin (TBT). Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.

§TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) and β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) are reported as a mixture.

aRefer to Aluminosilicate, Refractory Ceramic Fibres fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm) c) alkaline oxide and alkali earth oxide (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content less or equal to 18% by weight.

bRefer to Zirconia Aluminosilicate, Refractory Ceramic Fibres fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm). c) alkaline oxide and alkali earth oxide (Na<sub>2</sub>O+K<sub>2</sub>O+CaO+MgO+BaO) content less or equal to 18% by weight.

+ [1,2-Benzenedicarboxylic acid, dipentylester, branched and linear] is a mixture of phthalates contains DPP, DIPP and N-pentyl-isopentylphthalate.

++ [1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear] is a mixture of phthalates contains dihexyl phthalate.

ΦResult is based on the tin metal concentration, and further confirmation for checking DBT, DOTE & MOTE concentration.

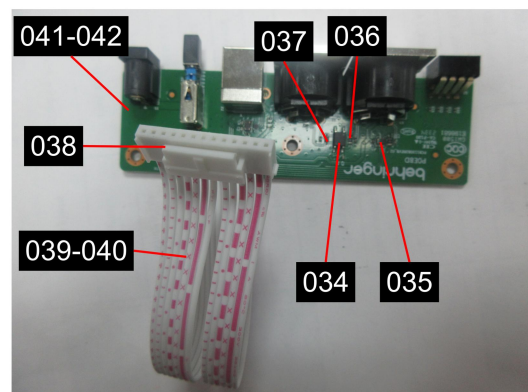
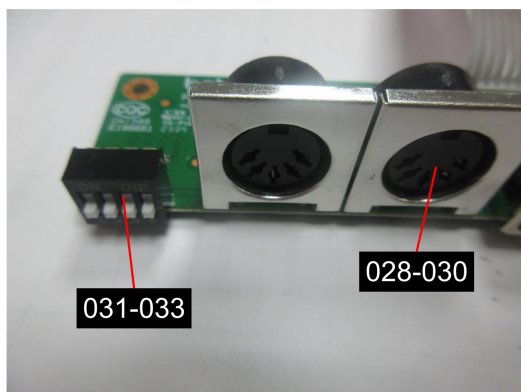
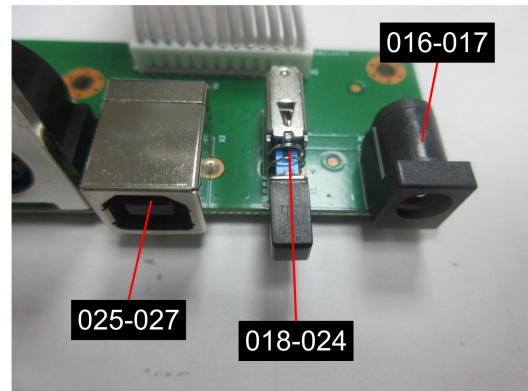
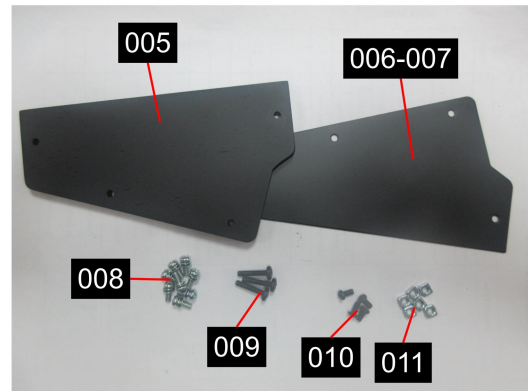
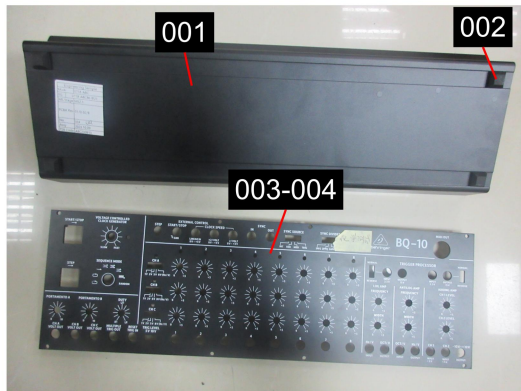


# Test Report

Report No. ESTC-240815004(R)

Date: 6 Nov 2024

Page 26 of 28



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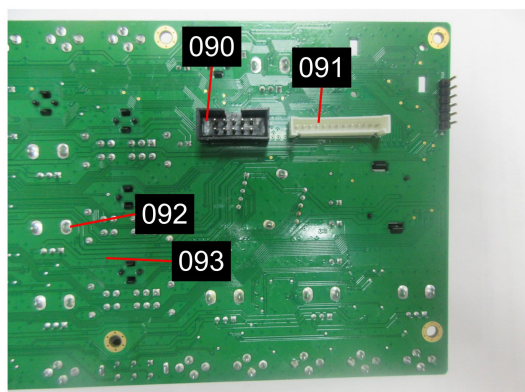
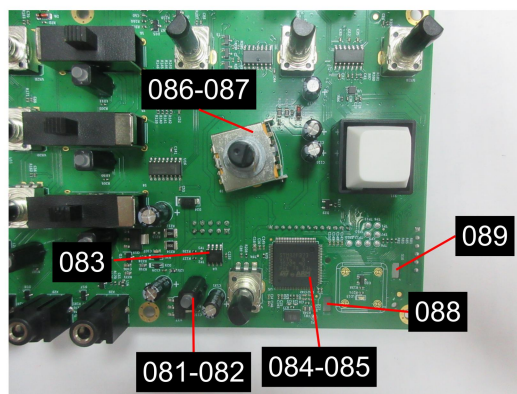
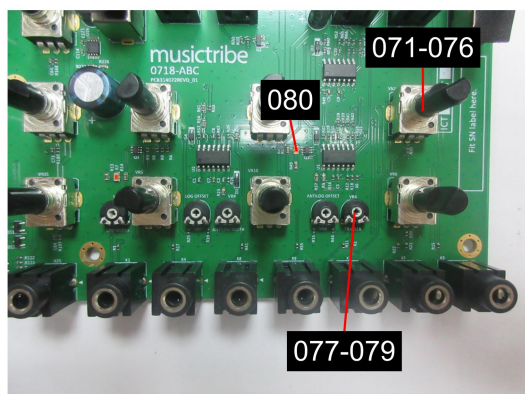
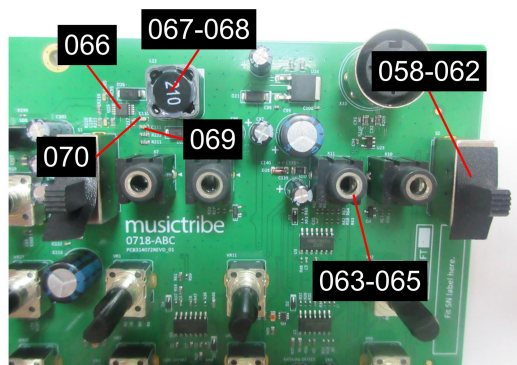
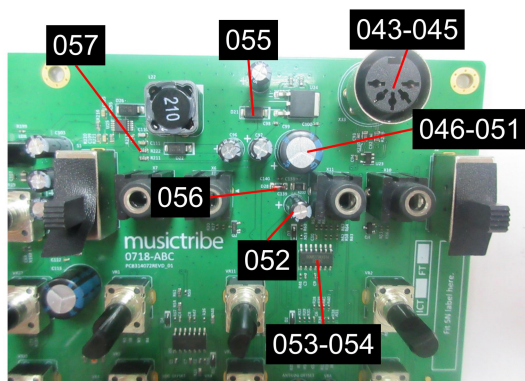


# Test Report

Report No. ESTC-240815004(R)

Date: 6 Nov 2024

Page 27 of 28



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# Test Report

Report No. ESTC-240815004(R)

Date: 6 Nov 2024

Page 28 of 28

## 3. Photo of the Submitted Sample



*EST Technology authenticate the photo on original report only*

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

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