

**Test Report**

Report No.: 210719212GZU-045

Date: Aug 20, 2021

Applicant: AILUN ELECTRONIC TECHNOLOGY (H.K) LIMITED

Room 01, 21/F Prosper Commercial Building 9  
Yin Chong Street, Kowloon, H.K

Sample Description:

The following submitted sample(s) said to be:

|                         |   |                              |
|-------------------------|---|------------------------------|
| Item Name               | : | <b>Metal Film Resistor</b>   |
| Model No.               | : | NA                           |
| Date of Sample Received | : | Jul 21, 2021                 |
| Testing Period          | : | Jul 21, 2021 to Aug 10, 2021 |

Tests conducted:

As requested by the applicant, refer to following page(s) for details.

Summary:

According to the EU REACH Regulation No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH requirement in report for details) and analytical techniques, the concentration of each of 219 Substances of very high concern (SVHCs) is <0.1%(w/w) in the test group (1) of submitted sample.

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch:

Prepared by:

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Leo Yao  
Engineer



Reviewed by:

Michael Pang

Michael Pang  
Assistant Technical Supervisor



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(I) SVHC Testing Results:

By Inductively Coupled Plasma Optical Emission Spectrometry, Ion Chromatography, UV-Visible Spectrophotometry, Gas Chromatographic - Mass Spectrometry, Liquid Chromatographic - Mass Spectrometry and High Performance Liquid Chromatography analysis.

| Item | Batch | Chemical Substance                            | CAS No.                          | Results % (w/w) |
|------|-------|---|----------------------------------|-----------------|
|      |       |   |                                  | (1)             |
| 29   | III   | Boric Acid Δ                                  | 10043-35-3, 11113-50-1           | ND#1            |
| 30   | III   | Disodium Tetraborate, Anhydrous Δ             | 1330-43-4, 12179-04-3, 1303-96-4 | ND#1            |
| 31   | III   | Tetraboron Disodium Heptaoxide, Hydrate Δ     | 12267-73-1                       | ND#1            |
| 74   | VII   | Diboron trioxideΔ                             | 1303-86-2                        | ND#1            |
| 154  | XI    | Sodium perborate; perboric acid, sodium saltΔ | --                               | ND#1            |
| 155  | XI    | Sodium peroxometaborateΔ                      | 7632-04-4                        | ND#1            |
| 186  | XIX   | Disodium octaborateΔ                          | 12008-41-2                       | ND#1            |
| 218  | XXV   | Orthoboric acid, sodium saltΔ                 | 13840-56-7                       | ND#1            |
|      | -     | Other tested SVHCs in Chemical list           | -                                | ND              |

SVHC = Substance of very high concern

ND = Not detected

Detection limit = 0.010%

Remark#1=For Boron(B) was found 0.027%(w/w), Sodium(Na) was found 0.012%(w/w), however, as claimed by manufacturer, Boric acid, Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate, Diboron trioxide, Sodium perborate; perboric acid, sodium salt, Sodium peroxometaborate, Disodium octaborate,Orthoboric acid, sodium salt were not used in tested component(1).

Note:

1. Composite test has been performed in equal proportion for the materials per client requested
2. In consideration of the analysis requirement and the limit of sample volume, the screening test for the article is based on materials enough to test

As applicant's requirement, materials were screened in composite testing.

(II) Tested group:

- (1) Electronic elements



(III) Tested SVHC Chemical list:

Tested SVHC Chemical candidate list:

| <u>Items</u> | <u>Batch</u> | <u>Chemical Substance</u>  | <u>CAS No.</u>  |
|--------------|--------------|--|---|
| 1            | I            | Cobalt Dichloride Δ  | 7646-79-9   |
| 2            | I            | Diarsenic Pentaoxide Δ   | 1303-28-2   |
| 3            | I            | Diarsenic Trioxide Δ   | 1327-53-3   |
| 4            | I            | Lead Hydrogen Arsenate Δ   | 7784-40-9   |
| 5            | I            | Triethyl Arsenate Δ  | 15606-95-8  |
| 6            | I            | Sodium Dichromate Δ  | 7789-12-0, 10588-01-9   |
| 7            | I            | Bis (Tributyltin) Oxide (TBTO) Δ   | 56-35-9   |
| 8            | I            | Anthracene   | 120-12-7  |
| 9            | I            | 4,4'-Diaminodiphenylmethane (MDA)  | 101-77-9  |
| 10           | I            | Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified (α-HBCDD, β-HBCDD, γ-HBCDD) | 25637-99-4 and 3194-55-6 (134237-50-6,134237-51-7, 134237-52-8) |
| 11           | I            | 5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)   | 81-15-2   |
| 12           | I            | Bis (2-Ethylhexyl) Phthalate (DEHP)  | 117-81-7  |
| 13           | I            | Dibutyl Phthalate (DBP)  | 84-74-2   |
| 14           | I            | Benzyl Butyl Phthalate (BBP)   | 85-68-7   |
| 15           | I            | Short Chain Chlorinated Paraffins (C <sub>10-13</sub> )  | 85535-84-8  |
| 16           | II           | Lead Chromate Δ  | 7758-97-6   |
| 17           | II           | Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ  | 12656-85-8  |
| 18           | II           | Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ   | 1344-37-2   |
| 19           | II           | Tris (2-Chloroethyl) Phosphate   | 115-96-8  |
| 20           | II           | 2,4-Dinitrotoluene   | 121-14-2  |
| 21           | II           | Diisobutyl Phthalate (DIBP)  | 84-69-5   |
| 22           | II           | Coal Tar Pitch, High Temperature   | 65996-93-2  |
| 23           | II           | Anthracene Oil   | 90640-80-5  |
| 24           | II           | Anthracene Oil, Anthracene Paste, Distn. Lights  | 91995-17-4  |
| 25           | II           | Anthracene Oil, Anthracene Paste, Anthracene Fraction  | 91995-15-2  |
| 26           | II           | Anthracene Oil, Anthracene-low   | 90640-82-7  |



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|    |     |   |                                     |
|----|-----|---|-------------------------------------|
| 27 | II  | Anthracene Oil, Anthracene Paste  | 90640-81-6                          |
| 28 | II  | Acrylamide  | 79-06-1                             |
| 29 | III | Boric Acid Δ  | 10043-35-3, 11113-50-1              |
| 30 | III | Disodium Tetraborate, Anhydrous Δ   | 1330-43-4, 12179-04-3,<br>1303-96-4 |
| 31 | III | Tetraboron Disodium Heptaoxide, Hydrate Δ   | 12267-73-1                          |
| 32 | III | Sodium Chromate Δ   | 7775-11-3                           |
| 33 | III | Potassium Chromate Δ  | 7789-00-6                           |
| 34 | III | Ammonium Dichromate Δ   | 7789-09-5                           |
| 35 | III | Potassium Dichromate Δ  | 7778-50-9                           |
| 36 | III | Trichloroethylene   | 79-01-6                             |
| 37 | IV  | 2-Methoxyethanol  | 109-86-4                            |
| 38 | IV  | 2-Ethoxyethanol   | 110-80-5                            |
| 39 | IV  | Cobalt Sulphate Δ   | 10124-43-3                          |
| 40 | IV  | Cobalt Dinitrate Δ  | 10141-05-6                          |
| 41 | IV  | Cobalt Carbonate Δ  | 513-79-1                            |
| 42 | IV  | Cobalt Diacetate Δ  | 71-48-7                             |
| 43 | IV  | Chromium Trioxide Δ   | 1333-82-0                           |
| 44 | IV  | Chromic Acid Δ<br>Dichromic Acid Δ<br>Oligomers of Chromic Acid and Dichromic Acid Δ                      | 7738-94-5<br>13530-68-2<br>--       |
| 45 | V   | Strontium ChromateΔ   | 7789-06-2                           |
| 46 | V   | 2-ethoxyethyl acetate (2-EEA)   | 111-15-9                            |
| 47 | V   | 1,2-Benzenedicarboxylic acid, di-C <sub>7-11</sub> -<br>branched and linear alkyl esters (DHNUP)          | 68515-42-4                          |
| 48 | V   | Hydrazine   | 7803-57-8<br>302-01-2               |
| 49 | V   | 1-methyl-2-pyrrolidone  | 872-50-4                            |
| 50 | V   | 1,2,3-trichloropropane  | 96-18-4                             |
| 51 | V   | 1,2-Benzenedicarboxylic acid, di-C <sub>6-8</sub> -<br>branched alkyl esters, C <sub>7</sub> -rich (DIHP) | 71888-89-6                          |
| 52 | VI  | Lead dipicrateΔ   | 6477-64-1                           |
| 53 | VI  | Lead styphnateΔ   | 15245-44-0                          |
| 54 | VI  | Lead azide; Lead diazideΔ   | 13424-46-9                          |
| 55 | VI  | Phenolphthalein   | 77-09-8                             |
| 56 | VI  | 2,2'-dichloro-4,4'-methylenedianiline<br>(MOCA)   | 101-14-4                            |



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|----|-----|--|--------------------------|
| 57 | VI  | N,N-dimethylacetamide (DMAC)   | 127-19-5                 |
| 58 | VI  | Trilead diarsenate $\Delta$  | 3687-31-8                |
| 59 | VI  | Calcium arsenate $\Delta$  | 7778-44-1                |
| 60 | VI  | Arsenic acid $\Delta$  | 7778-39-4                |
| 61 | VI  | Bis(2-methoxyethyl) ether  | 111-96-6                 |
| 62 | VI  | 1,2-Dichloroethane   | 107-06-2                 |
| 63 | VI  | 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)                                       | 140-66-9                 |
| 64 | VI  | 2-Methoxyaniline; o-Anisidine  | 90-04-0                  |
| 65 | VI  | Bis(2-methoxyethyl) phthalate (DMEP)   | 117-82-8                 |
| 66 | VI  | Formaldehyde, oligomeric reaction products with aniline (technical MDA)                        | 25214-70-4               |
| 67 | VI  | Pentazinc chromate octahydroxide $\Delta$  | 49663-84-5               |
| 68 | VI  | Potassium hydroxyoctaoxodizincate dichromate $\Delta$  | 11103-86-9               |
| 69 | VI  | Dichromium tris(chromate) $\Delta$   | 24613-89-6               |
| 70 | VI  | Aluminosilicate Refractory Ceramic Fibres $\Delta$   | (Index No. 650-017-00-8) |
| 71 | VI  | Zirconia Aluminosilicate Refractory Ceramic Fibres $\Delta$                                    | (Index No. 650-017-00-8) |
| 72 | VII | 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)  | 112-49-2                 |
| 73 | VII | 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)                                    | 110-71-4                 |
| 74 | VII | Diboron trioxide $\Delta$  | 1303-86-2                |
| 75 | VII | Formamide  | 75-12-7                  |
| 76 | VII | Lead(II) bis(methanesulfonate) $\Delta$  | 17570-76-2               |
| 77 | VII | TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)                        | 2451-62-9                |
| 78 | VII | $\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) | 59653-74-6               |
| 79 | VII | 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)   | 90-94-8                  |
| 80 | VII | N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)                                 | 101-61-1                 |



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|----|------|---|------------|
| 81 | VII  | [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]                  | 548-62-9   |
| 82 | VII  | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] | 2580-56-5  |
| 83 | VII  | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]                                 | 6786-83-0  |
| 84 | VII  | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]   | 561-41-1   |
| 85 | VIII | Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)  | 1163-19-5  |
| 86 | VIII | Pentacosafuorotridecanoic acid  | 72629-94-8 |
| 87 | VIII | Tricosafuorododecanoic acid   | 307-55-1   |
| 88 | VIII | Henicosafuoroundecanoic acid  | 2058-94-8  |
| 89 | VIII | Heptacosafuorotetradecanoic acid  | 376-06-7   |
| 90 | VIII | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))   | 123-77-3   |



|    |      |   |   |
|----|------|---|---|
| 91 | VIII | <p>Cyclohexane-1,2-dicarboxylic anhydride [1]</p> <p>cis-cyclohexane-1,2-dicarboxylic anhydride [2]</p> <p>trans-cyclohexane-1,2-dicarboxylic anhydride [3]</p> <p>[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].</p>  | <p>85-42-7</p> <p>13149-00-3</p> <p>14166-21-3</p>                      |
| 92 | VIII | <p>Hexahydromethylphthalic anhydride [1],</p> <p>Hexahydro-4-methylphthalic anhydride [2],</p> <p>Hexahydro-1-methylphthalic anhydride [3],</p> <p>Hexahydro-3-methylphthalic anhydride [4]</p> <p>[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]</p> | <p>25550-51-0</p> <p>19438-60-9</p> <p>48122-14-1</p> <p>57110-29-9</p> |
| 93 | VIII | <p>4-Nonylphenol, branched and linear</p> <p>[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]</p>  | --  |
| 94 | VIII | <p>4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated</p> <p>[covering well-defined substances and UVCB substances, polymers and homologues]</p>   | --  |



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|     |      |   |             |
|-----|------|---|-------------|
| 95  | VIII | Methoxyacetic acid  | 625-45-6    |
| 96  | VIII | N,N-dimethylformamide   | 68-12-2     |
| 97  | VIII | Dibutyltin dichloride (DBTC) Δ  | 683-18-1    |
| 98  | VIII | Lead monoxide (Lead oxide) Δ  | 1317-36-8   |
| 99  | VIII | Orange lead (Lead tetroxide) Δ  | 1314-41-6   |
| 100 | VIII | Lead bis(tetrafluoroborate) Δ   | 13814-96-5  |
| 101 | VIII | Trilead bis(carbonate)dihydroxide Δ   | 1319-46-6   |
| 102 | VIII | Lead titanium trioxideΔ   | 12060-00-3  |
| 103 | VIII | Lead titanium zirconium oxideΔ  | 12626-81-2  |
| 104 | VIII | Silicic acid, lead salt Δ   | 11120-22-2  |
| 105 | VIII | Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-dopedΔ<br><br>[with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] | 68784-75-8  |
| 106 | VIII | 1-bromopropane (n-propyl bromide)   | 106-94-5    |
| 107 | VIII | Methyloxirane (Propylene oxide)   | 75-56-9     |
| 108 | VIII | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear  | 84777-06-0  |
| 109 | VIII | Diisopentylphthalate (DIPP)   | 605-50-5    |
| 110 | VIII | N-pentyl-isopentylphthalate   | 776297-69-9 |
| 111 | VIII | 1,2-diethoxyethane  | 629-14-1    |
| 112 | VIII | Acetic acid, lead salt, basicΔ  | 51404-69-4  |
| 113 | VIII | Lead oxide sulfateΔ   | 12036-76-9  |
| 114 | VIII | [Phthalato(2-)]dioxotrileadΔ  | 69011-06-9  |
| 115 | VIII | Dioxobis(stearato)trileadΔ  | 12578-12-0  |
| 116 | VIII | Fatty acids, C16-18, lead saltsΔ  | 91031-62-8  |
| 117 | VIII | Lead cyanamateΔ   | 20837-86-9  |
| 118 | VIII | Lead dinitrateΔ   | 10099-74-8  |
| 119 | VIII | Pentalead tetraoxide sulphateΔ  | 12065-90-6  |
| 120 | VIII | Pyrochlore, antimony lead yellowΔ   | 8012-00-8   |





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|-----|------|--|-------------|
| 121 | VIII | Sulfurous acid, lead salt, dibasic $\Delta$  | 62229-08-7  |
| 122 | VIII | Tetraethyllead $\Delta$  | 78-00-2     |
| 123 | VIII | Tetralead trioxide sulphate $\Delta$   | 12202-17-4  |
| 124 | VIII | Trilead dioxide phosphonate $\Delta$   | 12141-20-7  |
| 125 | VIII | Furan  | 110-00-9    |
| 126 | VIII | Diethyl sulphate   | 64-67-5     |
| 127 | VIII | Dimethyl sulphate  | 77-78-1     |
| 128 | VIII | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine   | 143860-04-2 |
| 129 | VIII | Dinoseb (6-sec-butyl-2,4-dinitrophenol)  | 88-85-7     |
| 130 | VIII | 4,4'-methylenedi-o-toluidine   | 838-88-0    |
| 131 | VIII | 4,4'-oxydianiline and its salts  | 101-80-4    |
| 132 | VIII | 4-aminoazobenzene  | 60-09-3     |
| 133 | VIII | 4-methyl-m-phenylenediamine (toluene-2,4-diamine)  | 95-80-7     |
| 134 | VIII | 6-methoxy-m-toluidine (p-cresidine)  | 120-71-8    |
| 135 | VIII | Biphenyl-4-ylamine   | 92-67-1     |
| 136 | VIII | o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]   | 97-56-3     |
| 137 | VIII | o-toluidine  | 95-53-4     |
| 138 | VIII | N-methylacetamide  | 79-16-3     |
| 139 | IX   | Cadmium $\Delta$   | 7440-43-9   |
| 140 | IX   | Cadmium oxide $\Delta$   | 1306-19-0   |
| 141 | IX   | Dipentyl phthalate (DPP)   | 131-18-0    |
| 142 | IX   | 4-Nonylphenol, branched and linear, ethoxylated [ <i>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</i> ] | --          |
| 143 | IX   | Ammonium pentadecafluorooctanoate (APFO)   | 3825-26-1   |
| 144 | IX   | Pentadecafluorooctanoic acid (PFOA)  | 335-67-1    |
| 145 | X    | Cadmium sulphide $\Delta$  | 1306-23-6   |



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|-----|-----|--|---------------------------|
| 146 | X   | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)   | 573-58-0                  |
| 147 | X   | 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                 |
| 148 | X   | Dihexyl phthalate (DnHP)   | 84-75-3                   |
| 149 | X   | Imidazolidine-2-thione (2-imidazoline-2-thiol)   | 96-45-7                   |
| 150 | X   | Lead di(acetate) $\Delta$  | 301-04-2                  |
| 151 | X   | Trixylyl phosphate   | 25155-23-1                |
| 152 | XI  | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (Diisohexyl phthalate(DIHP))  | 68515-50-4                |
| 153 | XI  | Cadmium chloride $\Delta$  | 10108-64-2                |
| 154 | XI  | Sodium perborate; perboric acid, sodium salt $\Delta$  | --                        |
| 155 | XI  | Sodium peroxometaborate $\Delta$   | 7632-04-4                 |
| 156 | XII | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)   | 25973-55-1                |
| 157 | XII | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)   | 3846-71-7                 |
| 158 | XII | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)   | 15571-58-1                |
| 159 | XII | Cadmium fluoride $\Delta$  | 7790-79-6                 |
| 160 | XII | Cadmium sulphate $\Delta$  | 10124-36-4; 31119-53-6    |
| 161 | XII | Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) | 15571-58-1;<br>27107-89-7 |



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|     |       |   |  |
|-----|-------|---|--|
| 162 | XIII  | 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq$ 0.3% of dihexyl phthalate (EC No. 201-559-5)  | 68515-51-5<br>68648-93-1                 |
| 163 | XIII  | 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof] | 117933-89-8                              |
| 164 | XIV   | 1,3-propanesultone  | 1120-71-4                                |
| 165 | XIV   | Perfluorononanoic acid and its sodium and ammonium salts  | 375-95-1<br>21049-39-8<br>4149-60-4      |
| 166 | XIV   | 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)  | 3864-99-1                                |
| 167 | XIV   | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)  | 36437-37-3                               |
| 168 | XIV   | Nitrobenzene  | 98-95-3                                  |
| 169 | XV    | Benzo[a]pyrene  | 50-32-8                                  |
| 170 | XVI   | 4, 4'-isopropylidenediphenol (bisphenol A)  | 80-05-7                                  |
| 171 | XVI   | 4-Heptylphenol, branched and linear   | ---                                      |
| 172 | XVI   | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts  | 3108-42-7<br>335-76-2<br>3830-45-3       |
| 173 | XVI   | 4-tert-pentylphenol (PTAP)  | 80-46-6                                  |
| 174 | XVII  | Perfluorohexane-1-sulphonic acid and its salts(PFHxS)   | 355-46-4                                 |
| 175 | XVIII | Chrysene  | 218-01-9                                 |
| 176 | XVIII | Benz[a]anthracene   | 56-55-3                                  |
| 177 | XVIII | Cadmium nitrate $\Delta$  | 10325-94-7                               |
| 178 | XVIII | Cadmium hydroxide $\Delta$  | 21041-95-2                               |
| 179 | XVIII | Cadmium carbonate $\Delta$  | 513-78-0                                 |
| 180 | XVIII | Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)  | 13560-89-9; 135821-74-8;<br>135821-03-3- |



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|     |       |  |             |
|-----|-------|--|-------------|
| 181 | XVIII | Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear] | -           |
| 182 | XIX   | benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)   | 552-30-7    |
| 183 | XIX   | Dicyclohexyl phthalate(DCHP)   | 84-61-7     |
| 184 | XIX   | Benzo[ghi]perylene   | 191-24-2    |
| 185 | XIX   | Decamethylcyclopentasiloxane (D5)  | 541-02-6    |
| 186 | XIX   | Disodium octaborate $\Delta$   | 12008-41-2  |
| 187 | XIX   | Dodecamethylcyclohexasiloxane (D6)   | 540-97-6    |
| 188 | XIX   | Ethylenediamine  | 107-15-3    |
| 189 | XIX   | Lead   | 7439-92-1   |
| 190 | XIX   | Octamethylcyclotetrasiloxane (D4)  | 556-67-2    |
| 191 | XIX   | Terphenyl hydrogenated   | 61788-32-7  |
| 192 | XX    | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane  | 6807-17-6   |
| 193 | XX    | Benzo[k]fluoranthene   | 207-08-9    |
| 194 | XX    | Fluoranthene   | 206-44-0    |
| 195 | XX    | Phenanthrene   | 85-01-8     |
| 196 | XX    | Pyrene   | 129-00-0    |
| 197 | XX    | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one(3-benzylidene camphor; 3-BC)   | 15087-24-8  |
| 198 | XXI   | 4-tert-butylphenol (PTBP)  | 98-54-4     |
| 199 | XXI   | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)               | -           |
| 200 | XXI   | 2-methoxyethyl acetate   | 110-49-6    |
| 201 | XXI   | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)   | -           |
| 202 | XXII  | 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone  | 119313-12-1 |
| 203 | XXII  | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one   | 71868-10-5  |
| 204 | XXII  | Diisohexyl phthalate   | 71850-09-4  |



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|     |       |   |   |
|-----|-------|---|---|
| 205 | XXII  | Perfluorobutane sulfonic acid (PFBS) and its salts  | --  |
| 206 | XXIII | 1-vinylimidazole  | 1072-63-5                                       |
| 207 | XXIII | 2-methylimidazole   | 693-98-1  |
| 208 | XXIII | Butyl 4-hydroxybenzoate   | 94-26-8   |
| 209 | XXIII | Dibutylbis(pentane-2,4-dionato-O,O')tin   | 22673-19-4                                      |
| 210 | XXIV  | bis(2-(2-methoxyethoxy)ethyl) ether   | 143-24-8  |
| 211 | XXIV  | Dioctyltin 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 $\Delta$ | --  |
| 212 | XXV   | 1,4-dioxane   | 123-91-1  |
| 213 | XXV   | 2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)   | 3296-90-0<br>36483-57-5<br>1522-92-5<br>96-13-9 |
| 214 | XXV   | 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers  | --  |
| 215 | XXV   | 4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)  | 77-40-7   |
| 216 | XXV   | Glutaral  | 111-30-8  |
| 217 | XXV   | 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]                                 | 85535-85-9                                      |
| 218 | XXV   | Orthoboric acid, sodium salt $\Delta$   | 13840-56-7                                      |
| 219 | XXV   | 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)                       | --  |

$\Delta$  = Determination was based on elemental analysis. The content was calculated based on assumption of worst-case.



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Notes:

Substances of very high concern (SVHC) are classified as:

Carcinogenic, mutagenic or toxic to reproduction category 1 (proven on humans) and category 2 (proven on animals)

Persistent, bioaccumulative and toxic chemicals (PBT)

Very persistent and very bioaccumulative chemicals (vPvB)

Other similar substances such as endocrine disrupters

If the imported or manufactured volume of each individual SVHC in article is more than 0.1% (w/w) and if it exceeds 1 tonne per year across all product ranges, then importer or manufacturer require notification to the European Chemical Agency (ECHA). For substances included in the Candidate List on or after 1 December 2010, the notifications have to be submitted no later than 6 months after the inclusion. The following information has to be submitted for notification:

Identification of the registrant and the substance

Classification and labelling of the substance

Description of use of the substance and the article

Registration number, if available

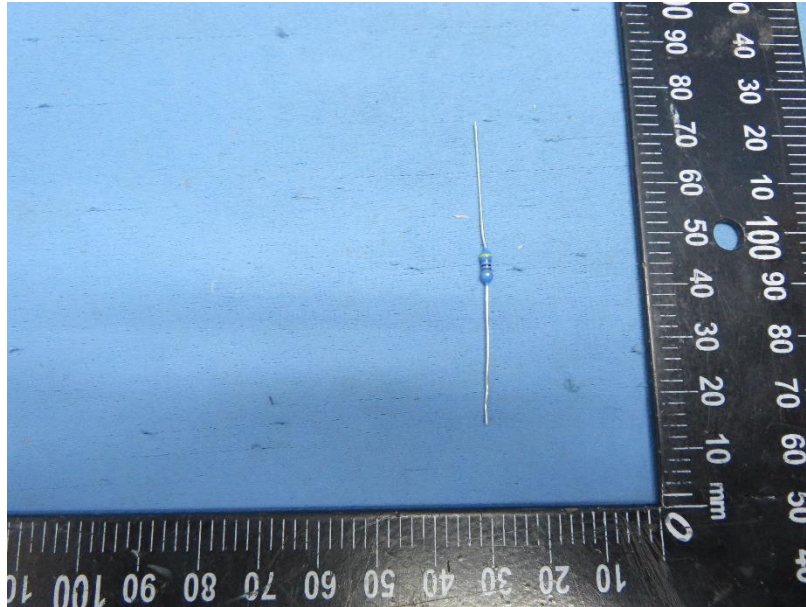
Tonnage range

REACH requirement:

As per article 33(1) of regulation (EC) No. 1907/2006 (REACH), recipients of product must be provided with information of safe use if any of the tested substances (SVHC) exceeded 0.1% (w/w). A product meets the requirement of article 33(1) by default when no SVHC exceeds 0.1% (w/w).



**Sample photo**



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End of report

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