



# 杭州友旺电子有限公司

HANGZHOU YOUWANG ELECTRONICS CO., LTD

地址(Add): 杭州市诚业路1号(No.1 Chengye Road, HangZhou, P.R.C) 邮编(P.C): 310052

电话(Tel): 86-571-86673988(总机OPR)

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## REACH 物质声明书

杭州友旺电子有限公司承诺提供的产品符合欧盟REACH法规, REACH 253项高关注物质清单如下:

REACH 253 项SVHC 清单:

| Substance identification |  |               | Content<br>(ppm) |
|--------------------------|--|---------------|------------------|
| NO.                      | Substance name   | CAS<br>number |                  |
| 1                        | 蒽Anthracene  | 120-12-7      | <1000            |
| 2                        | 4,4'-二氨基二苯甲烷 4,4'-<br>Diaminodiphenylmethane (MDA)   | 101-77-9      | <1000            |
| 3                        | 邻苯二甲酸二丁酯Dibutyl phthalate (DBP)  | 84-74-2       | <1000            |
| 4                        | 氯化钴Cobalt dichloride   | 7646-79-9     | <1000            |
| 5                        | 五氧化二砷Diarsenic pentaoxide  | 1303-28-2     | <1000            |
| 6                        | 三氧化二砷Diarsenic trioxide  | 1327-53-3     | <1000            |
| 7                        | 重铬酸钠二水合物Sodium dichromate, dehydrate   | 10588-01-9    | <1000            |
| 8                        | 二甲苯麝香 5-tert-butyl-2,4,6-trinitro-m-<br>xylene(musk xylene)                                | 81-15-2       | <1000            |
| 9                        | 邻苯二甲酸二(2-乙基己)酯Bis(2-<br>ethyl(hexyl)phthalate) (DEHP)                                      | 117-81-7      | <1000            |
| 10                       | 六溴环十二烷(HBCDD)Hexabromocyclododecane  | 25637-99-4    | <1000            |
| 11                       | C10-13 氯代烃(短链氯化石蜡)Alkanes, C10-<br>13, chloro(Short Chain Chlorinated Paraffins)<br>(SCCP) | 85535-84-8    | <1000            |
| 12                       | 三丁基氧化锡Bis(tributyltin)oxide (TBTO)   | 56-35-9       | <1000            |
| 13                       | 酸式砷酸铅Lead hydrogen arsenate  | 7784-40-9     | <1000            |
| 14                       | 三乙基砷酸酯Triethyl arsenate  | 15606-95-8    | <1000            |
| 15                       | 邻苯二甲酸丁苄酯Benzyl butyl phthalate   | 85-68-7       | <1000            |
| 16                       | 蒽油 Anthracene oil  | 90640-80-5    | <1000            |
| 17                       | 蒽油, 蒽糊, 轻油Anthracene oil, anthracene<br>paste, distn. lights                               | 91995-17-4    | <1000            |



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|    |  |                                      |       |
|----|--|--------------------------------------|-------|
| 18 | 蒽油, 蒽糊, 蒽馏分Anthracene oil, anthracene paste, anthracene fraction | 91995-15-2                           | <1000 |
| 19 | 蒽油, 含蒽量少Anthracene oil, anthracene-low                           | 90640-82-7                           | <1000 |
| 20 | 蒽油, 蒽糊Anthracene oil, anthracene Paste                           | 90640-81-6                           | <1000 |
| 21 | 沥青, 煤焦油, 高温Pitch, coal tar, high temp                            | 65996-93-2                           | <1000 |
| 22 | 2,4-二硝基甲苯 2,4-Dinitrotoluene                                     | 121-14-2                             | <1000 |
| 23 | 邻苯二甲酸二异丁酯Diisobutyl phthalate (DIBP)                             | 84-69-5                              | <1000 |
| 24 | 铬酸铅Lead chromate   | 7758-97-6                            | <1000 |
| 25 | 钼铬红 (C. I. 颜料红 104) C. I. Pigment Red 104                        | 12656-85-8                           | <1000 |
| 26 | 铅铬黄 (C. I. 颜料黄 34) C. I. Pigment Yellow 34                       | 1344-37-2                            | <1000 |
| 27 | 磷酸三(2-氯乙基)酯 Tris(2-chloroethyl) phosphate (TCEP)                 | 115-96-8                             | <1000 |
| 28 | 丙烯酰胺Acrylamide   | 79-06-1                              | <1000 |
| 29 | 三氯乙烯Trichloroethylene  | 79-01-6                              | <1000 |
| 30 | 硼酸 Boric acid  | 10043-35-3<br>11113-50-1             | <1000 |
| 31 | 水四硼酸钠Disodium tetraborate anhydrous                              | 1330-43-4<br>12179-04-3<br>1303-96-4 | <1000 |
| 32 | 七水合硼酸钠Tetraboron disodium heptaoxide, hydrate                    | 12267-73-1                           | <1000 |
| 33 | 铬酸钠Sodium chromate   | 7775-11-3                            | <1000 |
| 34 | 铬酸钾Potassium chromate  | 7789-00-6                            | <1000 |
| 35 | 重铬酸铵Ammonium dichromate  | 7789-09-5                            | <1000 |
| 36 | 重铬酸钾Potassium dichromate   | 7778-50-9                            | <1000 |
| 37 | 硫酸钴Cobalt (II) sulphate  | 10124-43-3                           | <1000 |
| 38 | 硝酸钴Cobalt dinitrate  | 10141-05-6                           | <1000 |
| 39 | 碳酸钴Cobalt (II) carbonate   | 513-79-1                             | <1000 |



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|----|--|------------|-------|
| 40 | 乙酸钴Cobalt (di)acetate  | 71-48-7    | <1000 |
| 41 | 2-甲氧基乙醇 2-Methoxyethanol   | 109-86-4   | <1000 |
| 42 | 2-乙氧基乙醇 2-Ethoxyethanol  | 110-80-5   | <1000 |
| 43 | 三氧化铬Trioxochromium   | 1333-82-0  | <1000 |
| 44 | 铬酸, 重铬酸, 铬酸及重铬酸低聚物 Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid            | 7738-94-5  | <1000 |
|    |  | 13530-68-2 | <1000 |
| 45 | 1,2-苯二酸-二(C6-8支链)烷基酯(富C7)<br>1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) | 71888-89-6 | <1000 |
| 46 | 1,2-苯二酸-二(C7-11支链与直链)烷基(醇)酯<br>1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters   | 68515-42-4 | <1000 |
| 47 | 1,2,3-三氯丙烷1,2,3-trichloropropane   | 96-18-4    | <1000 |
| 48 | 1-甲基-2-吡咯烷酮 1-methyl-2-pyrrolidone   | 872-50-4   | <1000 |
| 49 | 乙二醇乙醚醋酸酯 2-ethoxyethyl acetate   | 111-15-9   | <1000 |
| 50 | 联氨Hydrazine  | 7803-57-8  | <1000 |
| 51 | 铬酸锶 Strontium chromate   | 7789-06-2  | <1000 |
| 52 | 铬酸铬Dichromium tris(chromate)   | 24613-89-6 | <1000 |
| 53 | 氢氧化铬酸锌钾 Potassium hydroxyoctaoxodizincatedi-chromate   | 11103-86-9 | <1000 |
| 54 | 氢氧化铬酸锌Pentazinc chromate octahydroxide   | 49663-84-5 | <1000 |



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| 55 | 硅酸铝, 耐火陶瓷纤维(RCF) *Aluminosilicate Refractory Ceramic Fibres (RCF) *              | -          | <1000 |
| 56 | 氧化锆硅酸铝耐火陶瓷纤维*Zirconia Aluminosilicate Refractory Ceramic Fibres (ZrAl-RCF) *     | -          | <1000 |
| 57 | 甲醛与苯胺的低聚物Formaldehyde, oligomeric reaction products with aniline (technical MDA) | 25214-70-4 | <1000 |
| 58 | 邻苯二甲酸二甲氧基乙酯Bis(2-methoxyethyl) phthalate   | 117-82-8   | <1000 |
| 59 | 2-甲氧基苯胺 2-Methoxyaniline; o-Anisidine  | 90-04-0    | <1000 |
| 60 | 对特辛基苯酚 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)                  | 140-66-9   | <1000 |
| 61 | 1,2-二氯乙烷 1,2-Dichloroethane  | 107-06-2   | <1000 |
| 62 | 二乙二醇二甲醚Bis(2-methoxyethyl) ether   | 111-96-6   | <1000 |
| 63 | 砷酸Arsenic acid   | 7778-39-4  | <1000 |
| 64 | 砷酸钙Calcium arsenate  | 7778-44-1  | <1000 |
| 65 | 砷酸铅Trilead diarsenate  | 3687-31-8  | <1000 |
| 66 | N,N-二甲基乙酰胺N,N-dimethylacetamide (DMAC)   | 127-19-5   | <1000 |
| 67 | 4,4'-二氨基-3,3'-二氯二苯甲烷 2,2'-dichloro-4,4'-methylenedianiline (MOCA)                | 101-14-4   | <1000 |
| 68 | 酚酞Phenolphthalein  | 77-09-8    | <1000 |
| 69 | 叠氮化铅Lead diazide   | 13424-46-9 | <1000 |
| 70 | 史蒂芬酸铅Lead styphnate  | 15245-44-0 | <1000 |
| 71 | 苦味酸铅Lead dipicrate   | 6477-64-1  | <1000 |
| 72 | 三乙二醇二甲醚 1,2-bis(2-methoxyethoxy) ethane (TEGDME)                                 | 112-49-2   | <1000 |
| 73 | 乙二醇二甲醚 1,2-dimethoxyethane;ethylene glycol dimethyl ether (EGDME)                | 110-71-4   | <1000 |
| 74 | 三氧化二硼Diboron trioxide  | 1303-86-2  | <1000 |
| 75 | 甲酰胺Formamide   | 75-12-7    | <1000 |
| 76 | 甲基磺酸铅Lead(II)bis(methanesulfonate)   | 17570-76-2 | <1000 |



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|    |   |            |       |
|----|---|------------|-------|
| 77 | 1, 3, 5-三(环氧乙基甲基)-1, 3, 5-三嗪-2, 4, 6-(1H, 3H, 5H)-三酮TGIC(1, 3, 5-tris(oxiranylmethyl)-1, 3, 5-triazine-2, 4, 6(1H, 3H, 5H)-trione)                                | 2451-62-9  | <1000 |
| 78 | 1, 3, 5-三-[(2S 和2R)-2, 3-环氧丙基]-1, 3, 5-三嗪-2, 4, 6-(1H, 3H, 5H)-三酮(β-TGIC)(1, 3, 5-tris[(2S and2R)-2, 3-epoxypropyl]-1, 3, 5-triazine-2, 4, 6-(1H, 3H, 5H)-trione) | 59653-74-6 | <1000 |
| 79 | 4, 4'-二(二甲氨基)二苯甲酮(米氏酮)4, 4'-bis(dimethylamino)benzophenone(Michler's ketone)  | 90-94-8    | <1000 |
| 80 | N, N, N', N'-四甲基-4, 4'-二氨基二苯甲烷<br>N, N, N', N'-tetramethyl-4, 4'-methylenedianiline<br>(Michler's base)   | 101-61-1   | <1000 |
| 81 | C. L. 碱性紫 3 C. I. Basic Violet 3  | 548-62-9   | <1000 |
| 82 | C. L. 碱性蓝 26 C. I. Basic Blue 26  | 2580-56-5  | <1000 |
| 83 | C. L. 溶剂蓝 4 C. I. Solvent Blue 4  | 6786-83-0  | <1000 |
| 84 | 4, 4'-二(二甲氨基)-4''-甲氨基三苯甲醇4, 4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol   | 561-41-1   | <1000 |
| 85 | 十溴二苯醚Bis(pentabromophenyl) ether<br>(DecaBDE)   | 1163-19-5  | <1000 |
| 86 | 全氟十三烷酸Pentacosafuorotridecanoic acid  | 72629-94-8 | <1000 |
| 87 | 全氟十二烷酸Tricosafuorododecanoic acid   | 307-55-1   | <1000 |
| 88 | 全氟十一烷酸Henicosafuoroundecanoic acid  | 2058-94-8  | <1000 |
| 89 | 全氟十四烷酸Heptacosafuorotetradecanoic acid  | 376-06-7   | <1000 |
| 90 | 对特辛基苯酚乙氧基醚 4-(1, 1, 3, 3-tetramethylbutyl)phenol, ethoxylated   | —          | <1000 |
| 91 | 4-壬基(支链与直链)苯酚 4-Nonylphenol, branched and linear  | —          | <1000 |
| 92 | 偶氮二甲酰胺C, C'-azodi(formamide)  | 123-77-3   | <1000 |
| 93 | 环己烷-1, 2-二羧酸酐Cyclohexane-1, 2-dicarboxylic anhydride,<br>顺式-环己烷-1, 2-二羧酸酐cis-cyclohexane-1, 2-dicarboxylic anhydride,   | 85-42-7    | <1000 |



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|-----|---|---|-------|
| 94  | 甲基六氢邻苯二甲酸酐Hexahydromethylphthalic anhydride,<br>4-甲基六氢邻苯二甲酸酐Hexahydro-4-methylphthalic anhydride,<br>1-甲基六氢邻苯二甲酸酐Hexahydro-1-methylphthalic anhydride,<br>3-甲基六氢邻苯二甲酸酐 Hexahydro-3-methylphthalic anhydride | 25550-51-0,<br>19438-60-9,<br>48122-14-1,<br>57110-29-9 | <1000 |
| 95  | Methoxy acetic acid 甲氧基乙酸   | 625-45-6  | <1000 |
| 96  | 1,2-苯二酸-二(支链与直链)戊基酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear  | 84777-06-0  | <1000 |
| 97  | 邻苯二甲酸二异戊酯Diisopentylphthalate (DIPP)  | 605-50-5  | <1000 |
| 98  | 邻苯二甲酸正戊基异戊基酯N-pentyl-isopentylphthalate   | —   | <1000 |
| 99  | 乙二醇二乙醚 1,2-Diethoxyethane   | 629-14-1  | <1000 |
| 100 | N,N-二甲基甲酰胺N,N-dimethylformamide   | 68-12-2   | <1000 |
| 101 | 二丁基二氯化锡Dibutyltin dichloride (DBT)  | 683-18-1  | <1000 |
| 102 | 碱式乙酸铅Acetic acid, lead salt, basic  | 51404-69-4  | <1000 |
| 103 | 碱式碳酸铅Trilead bis(carbonate)dihydroxide  | 1319-46-6   | <1000 |
| 104 | Lead oxide sulfate (basic lead sulfate)硫酸铅  | 12036-76-9  | <1000 |
| 105 | 二盐基邻苯二甲酸铅[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)   | 69011-06-9  | <1000 |
| 106 | 双(十八酸基)二氧化三铅Dioxobis(stearato)trilead   | 12578-12-0  | <1000 |
| 107 | C16-18-脂肪酸铅盐Fatty acids, C16-18, lead salts   | 91031-62-8  | <1000 |
| 108 | 四氟硼酸铅Lead bis(tetrafluoroborate)  | 13814-96-5  | <1000 |
| 109 | 氨基氰铅盐Lead cyanamidate   | 20837-86-9  | <1000 |
| 110 | 硝酸铅Lead dinitrate   | 10099-74-8  | <1000 |
| 111 | 一氧化铅Lead oxide (lead monoxide)  | 1317-36-8   | <1000 |
| 112 | 四氧化三铅Lead tetroxide (orange lead)   | 1314-41-6   | <1000 |
| 113 | 钛酸铅Lead titanium trioxide   | 12060-00-3  | <1000 |



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|-----|---|-------------|-------|
| 114 | 钛酸铅锆Lead Titanium Zirconium Oxide   | 12626-81-2  | <1000 |
| 115 | 硫酸四氧化五铅Pentalead tetraoxide sulphate  | 12065-90-6  | <1000 |
| 116 | 铅锑黄Pyrochlore, antimony lead yellow   | 8012-00-8   | <1000 |
| 117 | 掺杂铅的硅酸钡Silicic acid, barium salt, lead-doped                                    | 68784-75-8  | <1000 |
| 118 | 硅酸铅Silicic acid, lead salt  | 11120-22-2  | <1000 |
| 119 | 二碱式亚硫酸铅Sulfurous acid, lead salt, dibasic                                       | 62229-08-7  | <1000 |
| 120 | 四乙基铅Tetraethyllead  | 78-00-2     | <1000 |
| 121 | 硫酸三氧化四铅Tetralead trioxide sulphate  | 12202-17-4  | <1000 |
| 122 | 二碱式亚磷酸铅Trilead dioxide phosphonate  | 12141-20-7  | <1000 |
| 123 | Furan 呋喃  | 110-00-9    | <1000 |
| 124 | 1,2-环氧丙烷Methyloxirane (Propylene oxide)   | 75-56-9     | <1000 |
| 125 | 硫酸二乙酯Diethyl sulphate   | 64-67-5     | <1000 |
| 126 | 硫酸二甲酯Dimethyl sulphate  | 77-78-1     | <1000 |
| 127 | 3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | 143860-04-2 | <1000 |
| 128 | 地乐酚Dinoseb  | 88-85-7     | <1000 |
| 129 | 4,4'-methylenedi-o-toluidine<br>4,4'-二氨基-3,3'-二甲基二苯甲烷 (AZO)                     | 838-88-0    | <1000 |
| 130 | 4,4'-二氨基二苯醚及其盐 4,4'-oxydianiline and its salts                                  | 101-80-4    | <1000 |
| 131 | 4-氨基偶氮苯 4-Aminoazobenzene   | 60-09-3     | <1000 |
| 132 | 2,4-二氨基甲苯 4-methyl-m-phenylenediamine   | 95-80-7     | <1000 |
| 133 | 2-甲氧基-5-甲基苯胺 6-methoxy-m-toluidine (p-cresidine)                                | 120-71-8    | <1000 |
| 134 | 4-氨基联苯Biphenyl-4-ylamine  | 92-67-1     | <1000 |
| 135 | 邻氨基偶氮甲苯o-aminoazotoluene  | 97-56-3     | <1000 |
| 136 | 2-邻甲苯胺o-Toluidine   | 95-53-4     | <1000 |
| 137 | N-甲基乙酰胺N-methylacetamide  | 79-16-3     | <1000 |



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|     |   |                           |       |
|-----|---|---------------------------|-------|
| 138 | 1-溴丙烷 1-bromopropane; n-propyl bromide  | 106-94-5                  | <1000 |
| 139 | 镉Cadmium  | 7440-43-9                 | <1000 |
| 140 | 氧化镉Cadmium oxide  | 1306-19-0                 | <1000 |
| 141 | 全氟辛酸铵Ammonium pentadecafluorooctanoate (APFO)                                       | 3825-26-1                 | <1000 |
| 142 | 全氟辛酸Pentadeca fluoro oct anoic (PFOA)   | 335-67-1                  | <1000 |
| 143 | 邻苯二甲酸二正戊酯Dipentyl phthalate (DPP)   | 131-18-0                  | <1000 |
| 144 | 4-壬基(支链与直链)苯酚乙氧基醚<br>4-Nonylphenol, branched and linear, ethoxylated                | -                         | <1000 |
| 145 | 硫化镉Cadmium sulphide   | 1306-23-6                 | <1000 |
| 146 | C. I. 直接红 28 C. I. Direct Red 28  | 573-58-0                  | <1000 |
| 147 | C. I. 直接黑 38 C. I. Direct Black 38  | 1937-37-7                 | <1000 |
| 148 | 邻苯二甲酸二正己酯Dihexyl phthalate  | 84-75-3                   | <1000 |
| 149 | 2-巯基咪唑啉Imidazolidine-2-thione (2-imidazoline-2-thiol)                               | 96-45-7                   | <1000 |
| 150 | 乙酸铅Lead di(acetate)   | 301-04-2                  | <1000 |
| 151 | 磷酸三二甲苯酯Trixylyl phosphate   | 25155-23-1                | <1000 |
| 152 | 氯化镉Cadmium chloride   | 10108-64-2                | <1000 |
| 153 | 邻苯二甲酸二(支链与直链)己基酯 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear   | 68515-50-4                | <1000 |
| 154 | 过硼酸钠Sodium peroxometaborate   | 7632-04-4                 | <1000 |
| 155 | 水合过硼酸钠Sodium perborate; perboric acid, sodium salt                                  | -                         | <1000 |
| 156 | 氟化镉Cadmium fluoride   | 7790-79-6                 | <1000 |
| 157 | 硫酸镉Cadmium sulphate   | 10124-36-4;<br>31119-53-6 | <1000 |
| 158 | 2-苯并三唑-2-基-4,6-二叔丁基苯酚 2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)          | 3846-71-7                 | <1000 |
| 159 | 2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 25973-55-1                | <1000 |



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|     |   |                                       |       |
|-----|---|---------------------------------------|-------|
| 160 | 二正辛基-双(2-乙基己基巯基乙酸酯)锡 2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)   | 15571-58-1                            | <1000 |
| 161 | 二正辛基-双(2-乙基己基巯基乙酸酯)锡(DOTE)和单辛基-三(2-乙基己基巯基乙酸酯)锡(MOTE)的反应物 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  | -                                     | <1000 |
| 162 | 1,2-苯二甲酸,二(C6-10)烷基酯; 1,2-苯二甲酸,混合二己二辛二癸酯,其中邻苯二甲酸二己酯含量≥0.3%<br>1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No.201-559-5)  | 68515-51-5<br>68648-93-1              | <1000 |
| 163 | 5-二级丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷 [1], 5-二级丁基-2-(4,6-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷 [2] (任何 [1] 和 {2} 或者其任意组合的单独异构体或其任何组合) 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 stereoisomers of [1] and [2] or any combination thereof] | -                                     | <1000 |
| 164 | 1,3-丙磺酸内酯 1,3-propanesultone  | 1120-71-4                             | <1000 |
| 165 | 2,4-二叔丁基-6-(5-氯苯并三唑-2-基)苯酚 (UV-327) 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)   | 3864-99-1                             | <1000 |
| 166 | 2-(2H-苯并三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)   | 36437-37-3                            | <1000 |
| 167 | 硝基苯 Nitrobenzene  | 98-95-3                               | <1000 |
| 168 | 全氟壬酸及其钠盐和铵盐 Perfluorononan-1-oic acid and its sodium and ammonium salts)  | 375-95-1,<br>21049-39-8,<br>4149-60-4 | <1000 |
| 169 | 苯并(a)芘 Benzo[def]chrysene (Benzo[a]pyrene)  | 50-32-8                               | <1000 |



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|-----|---|------------------------------------|-------|
| 170 | 4,4'-异亚丙基联苯酚(双酚A) 4,4'-isopropylidenediphenol (bisphenol A)   | 80-05-7                            | <1000 |
| 171 | 全氟癸酸(PFDA)及其钠盐和铵盐<br>nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts   | 335-76-2<br>3830-45-3<br>3108-42-7 | <1000 |
| 172 | 对叔戊基苯酚p-(1,1-dimethylpropyl)phenol  | 80-46-6                            | <1000 |
| 173 | 4-庚基(支链与直链)苯酚[苯酚的4号位被碳原子数为7的烷基取代的产物,包括UVCB-、所有单一同分异构体及其组合] 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 | /                                  | <1000 |
| 174 | 全氟己烷-1-磺酸及其盐<br>Perfluorohexane-1-sulphonic acid and its salts (PFHxS)  | 355-46-4                           | <1000 |
| 175 | 苯并蒽(BaA)Benz[a]anthracene   | 56-55-3                            | <1000 |
| 176 | 碳酸镉Cadmium carbonate  | 513-78-0                           | <1000 |
| 177 | 氢氧化镉Cadmium hydroxide   | 21041-95-2                         | <1000 |
| 178 | 硝酸镉Cadmium nitrate  | 10325-94-7                         | <1000 |
| 179 | 蒽(CHR)Chrysene  | 218-01-9                           | <1000 |
| 180 | 双(六氯环戊二烯)环辛烷(包含任何顺式与反式同分异构体或其组合)1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" TM) [covering any of its individual anti- and syn-isomers or any combination thereof]  | -                                  | <1000 |
| 181 | 1,3,4-噻二唑-2,5-二硫酮、甲醛与支链和直链4-庚基苯酚的反应产物(RP-HP)[含有支链和直链4-庚基苯酚重量比≥0.1%] 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]   | -                                  | <1000 |



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|     |  |            |             |
|-----|--|------------|-------------|
| 182 | 1, 2, 4-苯三酸酐(偏苯三酸酐) (TMA) Benzene-1, 2, 4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)  | 552-30-7   | <1000       |
| 183 | 苯并(g, h, i)芘(二萘嵌苯) (BPE) Benzo[ghi]perylene  | 191-24-2   | <1000       |
| 184 | 十甲基环五硅氧烷<br>(D5) Decamethylcyclopentasiloxane (D5)   | 541-02-6   | <1000       |
| 185 | 邻苯二甲酸二环己酯 (DCHP) Dicyclohexyl phthalate (DCHP)   | 84-61-7    | <1000       |
| 186 | 氧化硼钠#Disodium octaborate   | 12008-41-2 | <1000       |
| 187 | 十二甲基环六硅氧烷 (D6)<br>Dodecamethylcyclohexasiloxane (D6)   | 540-97-6   | <1000       |
| 188 | 乙二胺 Ethylenediamine (EDA)  | 107-15-3   | <1000       |
| 189 | 铅#Lead   | 7439-92-1  | <1000 (见备注) |
| 190 | 八甲基环四硅氧烷<br>(D4) Octamethylcyclotetrasiloxane (D4)   | 556-67-2   | <1000       |
| 191 | 氢化三联苯 Terphenyl, hydrogenated  | 61788-32-7 | <1000       |
| 192 | 1, 7, 7-三甲基-3-(苯基亚甲基) 双环[2. 2. 1]庚-2-酮 (3-亚苄基樟脑)<br>1, 7, 7-trimethyl-3-(phenylmethylene)bicyclo[2. 2. 1]heptan-2-one (3-benzylidene camphor; 3-BC)  | 15087-24-8 | <1000       |
| 193 | 4, 4'-(1, 3-二甲基丁基) 二苯酚<br>2, 2-bis(4'-hydroxyphenyl)-4-methylpentane   | 6807-17-6  | <1000       |
| 194 | 苯并[k]荧蒽 Benzo[k]fluoranthene   | 207-08-9   | <1000       |
| 195 | 荧蒽 Fluoranthene  | 93951-69-0 | <1000       |
| 196 | 菲 Phenanthrene   | 85-01-8    | <1000       |
| 197 | 芘 Pyrene   | 1718-52-1  | <1000       |
| 198 | 2, 3, 3, 3-四氟-2-(七氟丙氧基) 丙酸及其盐和酰基卤化物 (包括单体和组合)<br>2, 3, 3, 3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof | -          | <1000       |
| 199 | 2-甲氧基乙基乙酸酯 2-methoxyethyl acetate  | 110-49-6   | <1000       |



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|     |   |             |       |
|-----|---|-------------|-------|
| 200 | 4-叔丁基苯酚 4-tert-butylphenol  | 98-54-4     | <1000 |
| 201 | 三(4-壬基苯基, 支链和直链)亚磷酸酯(TNPP)(含 ≥ 0.1%的支链和直链 4-壬基苯酚) Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)  | -           | <1000 |
| 202 | "全氟丁烷磺酸(PFBS)及其盐<br>Perfluorobutane sulfonic acid (PFBS) and its salts"   | -           | <1000 |
| 203 | "邻苯二甲酸二异己酯Diisohexyl phthalate"   | 71850-09-4  | <1000 |
| 204 | "2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one"   | 71868-10-5  | <1000 |
| 205 | "2-苄基-2-二甲基氨基-4'-吗啉基苯基丁酮<br>2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone"  | 119313-12-1 | <1000 |
| 206 | 1- 乙烯基咪唑 1-vinylimidazole   | 1072-63-5   | <1000 |
| 207 | 2- 甲基咪唑 2-methylimidazole   | 693-98-1    | <1000 |
| 208 | 对羟基苯甲酸丁酯Butyl 4-hydroxybenzoate   | 94-26-8     | <1000 |
| 209 | 双(乙酰丙酮酸)二丁基锡<br>Dibutylbis(pentane-2,4-dionato-0,0') tin*   | 22673-19-4  | <1000 |
| 210 | 双(2-(2-甲氧基乙氧基)乙基)醚(四乙二醇二甲醚)<br>bis(2-(2-methoxyethoxy)ethyl) ether  | 143-24-8    | <1000 |
| 211 | 二月桂酸二辛基锡, 锡烷, 二辛基-, 双(椰油酰氧基)衍生物, 以及任何其他锡烷, 二辛基-, 双(脂肪酰氧基)衍生物。其中 C12 为脂肪酰氧基部分的主要碳原子数<br>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 | -           | <1000 |
| 212 | 对十二烷基苯酚及其异构体(PDDP)<br>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)  | -           | <1000 |



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|-----|--|-------------|-------|
| 213 | 原硼酸钠盐Orthoboric acid, sodium salt  | -           | <1000 |
| 214 | 中链氯化石蜡 (MCCP) (UVCB 物质: 由含 $\geq 80\%$ 的碳链长度C14 至 C17 之间的直链氯化烷烃组成) 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]         | -           | <1000 |
| 215 | 戊二醛 Glutaral   | 203-856-5   | <1000 |
| 216 | 2,2-双(4-羟基苯基)丁烷 (双酚 B)<br>4,4'-(1-methylpropylidene) bisphenol (bisphenol B)   | 201-025-1   | <1000 |
| 217 | 铃兰醛及其异构体<br>2-(4-tertbutylbenzyl)propionaldehyde and its individual stereoisomers  | -           | <1000 |
| 218 | 二溴新戊二醇三溴新戊醇2,3-二溴-1-丙醇<br>2,2-bis(bromomethyl)propanol, 3-diol (BMP) 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)   | -           | <1000 |
| 219 | 1,4-二氧六环 (二恶烷) 1,4-dioxane   | 204-661-8   | <1000 |
| 220 | 2,2'-亚甲基双(4-甲基-6-叔丁基苯) (DBMC)<br>6,6'-di-tert-butyl-2,2'-methylene-dip-cresol  | 119-47-1    | <1000 |
| 221 | 乙烯基-三(2-甲氧基乙氧基)硅烷<br>tris(2-methoxyethoxy) vinylsilane   | 1067-53-4   | <1000 |
| 222 | (±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]二环[2.2.1]庚-2-酮, 包括各个异构体和/或其组合 (4-MBC) (±)-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   | -           | <1000 |
| 223 | S-(三环[5.2.1.0' <sup>2,6</sup> ]癸-3-烯-8(或9)-基) 0-(异丙基或异丁基或2-乙基己基) 0-(异丙基或异丁基或2-乙基己基)二硫代磷酸酯<br>S-(tricyclo(5.2.1.0' <sup>2,6</sup> )deca-3-en-8(or 9)-yl) 0-(isopropyl or isobutyl or 2-ethylhexyl) 0-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate | 255881-94-8 | <1000 |
| 224 | N-羟甲基丙烯酰胺<br>N-(hydroxymethyl) acrylamide  | 924-42-5    | <1000 |



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| 225 | 三聚氰胺Melamine  | 108-78-1    | <1000 |
| 226 | 1,2-双(2,4,6-三溴苯氧基)乙烷1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene] (BTBPE)  | 37853-59-1  | <1000 |
| 227 | 四溴双酚 A<br>2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBP-A)   | 79-94-7     | <1000 |
| 228 | 4,4'-磺酰基二苯酚(双酚S)<br>4,4'-sulphonyldiphenol (BPS)  | 80-09-1     | <1000 |
| 229 | 偏硼酸钡<br>Barium diboron tetraoxide   | 13701-59-2  | <1000 |
| 230 | 四溴邻苯二甲酸双(2-乙基己基)酯, 包含其任何异构体及异构体组合<br>Bis(2-ethylhexyl) Tetrabromophthalate covering any of the individual isomers and/or combinations thereof (TBPH)  | -           | <1000 |
| 231 | 对羟基苯甲酸异丁酯(尼泊金异丁酯)<br>Isobutyl 4-hydroxybenzoate   | 4247-02-3   | <1000 |
| 232 | 全氟庚酸(PFHpA)及其盐<br>Perfluoroheptanoic acid (PFHpA) and its salts   | -           | <1000 |
| 233 | 2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙烷-2-基)吗啉和 2,2,3,3,5,5,6,6-八氟烷-4-(七氟丙基)吗啉的反应产物<br>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 | -           | <1000 |
| 234 | 4,4'-二氯二苯砜/ Bis(4-chlorophenyl) sulphone  | 80-07-9     | <1000 |
| 235 | 二苯基(2,4,6-三甲酰基)氧化磷(TPO) / Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)   | 75980-60-8  | <1000 |
| 236 | 2,4,6-三叔丁基苯酚(2,4,6-TTBP)<br>2,4,6-tri-tert-butylphenol  | 732-26-3    | <1000 |
| 237 | 2-[2-羟基-5-(1,1,3,3-四甲丁基)苯基]苯并三唑(UV-329)<br>2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol  | 3147-75-9   | <1000 |
| 238 | 2-(4-甲基苄基)-2-(二甲基氨基)-1-(4-吗啉苄基)-1-丁酮<br>2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one  | 119344-86-4 | <1000 |



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|-----|---|------------------------|-------|
| 239 | 布美三唑 (UV-326)<br>Bumetrizole  | 3896-11-5              | <1000 |
| 240 | 2-苯基丙烯与苯酚的低聚和烷基化反应产物<br>Oligomerisation and alkylation reaction products<br>of 2-phenylpropene and phenol                                 | -                      | <1000 |
| 241 | 过氧化二异丙苯<br>Bis( $\alpha$ , $\alpha$ -dimethylbenzyl)peroxide  | 80-43-3                | <1000 |
| 242 | 磷酸三苯酯<br>Triphenylphosphate   | 115-86-6               | <1000 |
| 243 | 6-[(C10-C13)-烷基-(支链, 不饱和)-<br>2,5-二氧吡咯烷-1-基]己酸<br>6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-   | 2156592-<br>54-8       | <1000 |
| 244 | 0,0,0-三苯基硫代磷酸酯0,0,0-triphenyl<br>phosphorothioate   | 597-82-0               | <1000 |
| 245 | 八甲基三硅氧烷<br>Octamethyltrisiloxane  | 107-51-7               | <1000 |
| 246 | 全氟三丙胺<br>Perfluamine  | 338-83-0               | <1000 |
| 247 | 三苯基硫代磷酸盐和叔丁基化苯基衍生物的反应物<br>reaction mass of: triphenylthiophosphate and  | 192268-65-<br>8        | <1000 |
| 248 | Decamethyltetrasiloxane<br>十甲基四硅氧烷  | 141-62-8               | <1000 |
| 249 | 1,1,1,3,5,5,5-heptamethyl-3-<br>[(trimethylsilyl)oxy]trisiloxane<br>1,1,1,3,5,5,5-七甲基-3-[(三甲基甲硅烷基)氧基]三<br>硅                               | 17928-28-8             | <1000 |
| 250 | tetra(sodium/potassium) 7-[(E)-{2-acetamido-4-<br>[(E)-(4-{[4-chloro-6-({2-[4-fluoro-6-<br>(vinylsulfonyl)phenyl]amino)-1,3,5-triazine-2- | -                      | <1000 |
| 251 | 1,1'-(1,2-亚乙基)双[五溴苯] (十溴二苯乙烷DBDPE   | 84852-53-9             | <1000 |
| 252 | 正己烷N-hexane   | 203-777-6/110-<br>54-3 | <1000 |
| 253 | ,4'-[2,2,2-三氟-1-(三氟甲基)亚乙基]双酚<br>(BPAF)及其盐<br>4,4'-[2,2,2-trifluoro-1-<br>(trifluoromethyl)ethylidene] diphenol (BPAF) and<br>its salts    | -                      | <1000 |



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备注: 针对铅 Lead, 我司中大功率封装产品使用铅锡银高温焊料, 其含铅量大于 90%, 符合欧盟 RoHS 指令 (2011/65/EU) 附录第 7(a) 高熔化温度型焊料中的铅 (如铅含量超过 85% 的铅基合金焊料) 豁免应用, 但是超过 REACH 法规要求的 SVHC 物质 < 0.1% (1000ppm) 的要求, 根据 REACH 法规要求需要告知客户。



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Hangzhou Youwang Electronics Co., Ltd.

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