

收电单位 SHENGYI TECHNOLOGY  
Fax To CO.,LTD.

主送人:

ATTN :

抄送人:

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事由:

RE :

**REACH declaration letter**

编号: SYO-F-0055 (23)

REF. NO:

日期:

Date :

主办:

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Shengyi QA Dept.



Dear Customer,

As the implementation of REACH Directive, the ECHA, European Chemicals Agency, has successively published 29 lists of SVHC so far (total 235 items as appendix) and the latest list had been finished review and started to implement on Jun 14, 2023. ECHA states the following requirement for suppliers of articles.

“EU or EEA suppliers of articles which contain substances on the Candidate List in a concentration above 0.1%(w/w) have to provide sufficient information, available to them, to their customers or upon requests, to a consumer within 45 days of the receipt of the request. This information must ensure safe use of the article and as minimum contain the name of the substance.”

Based on the survey of our raw material suppliers and production processes, we assure all Shengyi CCL meet the SVHC concentration <0.1% specified in REACH Directive. As per the request, we'll fulfill the obligation of notification. Therefore, to all of Shengyi customers, we hereby inform that the listed chemicals (235substances) in the currently effective SVHC as appendix are less than 0.1% in Shengyi CCL.

The 28th batch of SVHC substances put forward the requirement for tetrabromobisphenol A (TBBPA), and our laminates can meet the regulatory requirement. Because the prepreg is in the semi-cured state and some resins are not fully reacted, it may contain 'tetrabromobisphen

ol A' monomers with content of  $\geq 0.1\%$ . After the prepreg is hot-pressed into multilayer PCB, the 'tetrabromobisphenol A' monomers are fully reacted, and the content can meet the requirement of  $< 0.1\%$ .

Thanks and best regards.

## Appendix

| Item<br>項次 | Substance name<br>物質名稱                                                           | CAS No.                 | EC No.    |
|------------|----------------------------------------------------------------------------------|-------------------------|-----------|
| 1          | Anthracene<br>蒽                                                                  | 120-12-7                | 204-371-1 |
| 2          | 4,4'- Diaminodiphenylmethane<br>4,4'-二氨基二苯基甲烷                                    | 101-77-9                | 202-974-4 |
| 3          | Dibutyl phthalate<br>邻苯二甲酸二丁酯                                                    | 84-74-2                 | 201-557-4 |
| 4          | Cobalt dichloride<br>二氯化钴                                                        | 7646-79-9               | 231-589-4 |
| 5          | Diarsenic pentaoxide<br>五氧化砷                                                     | 1303-28-2               | 215-116-9 |
| 6          | Diarsenic trioxide<br>三氧化二砷                                                      | 1327-53-3               | 215-481-4 |
| 7          | Sodium dichromate, dihydrate<br>重铬酸钠二水合物                                         | 7789-12-0<br>10588-01-9 | 234-190-3 |
| 8          | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)<br>二甲苯麝香                      | 81-15-2                 | 201-329-4 |
| 9          | Bis (2-ethyl(hexyl)phthalate) (DEHP)<br>邻苯二甲酸                                    | 117-81-7                | 204-211-0 |
| 10         | Hexabromocyclododecane (HBCDD)<br>六溴环十二烷                                         | 25637-99-4              | 247-148-4 |
| 11         | Alkanes, C10-13, chloro (Short Chain Chlorinated<br>Paraffins)<br>短鏈氯化石蜡(C10-13) | 85535-84-8              | 287-476-5 |
| 12         | Bis(tributyltin)oxide<br>氧化双三丁基锡                                                 | 56-35-9                 | 200-268-0 |

|    |                                                                                 |                                      |                        |
|----|---------------------------------------------------------------------------------|--------------------------------------|------------------------|
| 13 | Lead hydrogen arsenate<br>酸式砷酸铅                                                 | 7784-40-9                            | 232-064-2              |
| 14 | Triethyl arsenate<br>三乙基砷酸酯                                                     | 15606-95-8                           | 427-700-2              |
| 15 | Benzyl butyl phthalate<br>邻苯二甲酸丁苄酯                                              | 85-68-7                              | 201-622-7              |
| 16 | Anthracene oil<br>蒽油                                                            | 90640-80-5                           | 292-602-7              |
| 17 | Anthracene oil,anthracene paste, distn.lights<br>蒽油, 蒽糊, 轻油                     | 91995-17-4                           | 295-278-5              |
| 18 | Anthracene oil,anthracene paste,anthracene fraction<br>蒽油, 蒽糊, 蒽馏分              | 91995-15-2                           | 295-275-9              |
| 19 | Anthracene oil,anthracene-low<br>蒽油, 含蒽量少                                       | 90640-82-7                           | 292-604-8              |
| 20 | Anthracene oil,anthracene paste<br>蒽油, 蒽糊                                       | 90640-81-6                           | 292-603-2              |
| 21 | Pitch, coal tar, high temp<br>沥青, 煤焦油, 高温                                       | 65996-93-2                           | 266-028-2              |
| 22 | 2,4-Dinitrotoluene<br>2,4-二硝基甲苯                                                 | 121-14-2                             | 204-450-0              |
| 23 | Diisobutyl phthalate<br>邻苯二甲酸二异丁酯                                               | 84-69-5                              | 201-553-2              |
| 24 | Lead chromate<br>铬酸铅                                                            | 7758-97-6                            | 231-846-0              |
| 25 | Lead chromate molybdate sulphate red (C.I. Pigment Red 104)<br>钼铬红(C.I.颜料红 104) | 12656-85-8                           | 235-759-9              |
| 26 | Lead sulfochromate yellow (C.I. Pigment Yellow 34) ) 铅<br>铬黄 (C.I.颜料黄 34        | 1344-37-2                            | 215-693-7              |
| 27 | tris(2-chloroethyl)phosphate<br>磷酸三(2-氯乙基)酯                                     | 115-96-8                             | 204-118-5              |
| 28 | Acrylanide<br>丙烯酰胺                                                              | 79-06-1                              | 201-173-7              |
| 29 | Boric acid<br>硼酸                                                                | 10043-35-3<br>11113-50-1             | 233-139-2<br>234-343-4 |
| 30 | Disodium tetraborate, anhydrous<br>无水四硼酸钠                                       | 1303-96-4<br>1330-43-4<br>12179-04-3 | 215-540-4              |
| 31 | Tetraboron disodium heptaoxide, hydrate<br>七水合四硼酸钠                              | 12267-73-1                           | 235-541-3              |

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| 32 | Sodium chromate<br>铬酸钠                                                                                                                                          | 7775-11-3               | 231-889-5              |
| 33 | Potassium chromate<br>铬酸钾                                                                                                                                       | 7789-00-6               | 232-140-5              |
| 34 | Ammonium dichromate<br>重铬酸铵                                                                                                                                     | 7789-9-5                | 232-143-1              |
| 35 | Potassium dichromate<br>重铬酸钾                                                                                                                                    | 7778-50-9               | 231-906-6              |
| 36 | Trichloroethylene<br>三氯乙烯                                                                                                                                       | 79-01-6                 | 201-167-4              |
| 37 | Cobalt(II) sulphate<br>硫酸钴                                                                                                                                      | 10124-43-3              | 233-334-2              |
| 38 | Cobalt(II) dinitrate<br>硝酸钴                                                                                                                                     | 10141-05-6              | 233-402-1              |
| 39 | Cobalt(II) carbonate<br>碳酸钴                                                                                                                                     | 71-48-7                 | 208-169-4              |
| 40 | Cobalt(II) diacetate<br>醋酸钴                                                                                                                                     | 71-48-7                 | 200-755-8              |
| 41 | 2-Methoxyethanol<br>2-甲氧基乙醇（乙二醇单甲醚）                                                                                                                             | 109-86-4                | 203-713-7              |
| 42 | 2-Ethoxyethanol<br>乙氧基乙醇（乙二醇单乙醇）                                                                                                                                | 110-80-5                | 203-804-1              |
| 43 | Chromium trioxide<br>三氧化铬                                                                                                                                       | 1333-82-0               | 215-607-8              |
| 44 | Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid<br>三氧化铬衍生酸，如铬酸、重铬酸、低聚铬酸等 | 7738-94-5<br>13530-68-2 | 231-801-5<br>236-881-5 |
| 45 | 2-ethoxyethyl acetate<br>乙二醇乙醚醋酸酯                                                                                                                               | 111-15-9                | 203-839-2              |
| 46 | strontium chromate<br>铬酸锶                                                                                                                                       | 7789-06-2               | 232-142-6              |
| 47 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters<br>1,2-苯二酸-二(C7-11 支链与直链)烷基酯                                                            | 68515-42-4              | 271-084-6              |
| 48 | Hydrazine<br>肼                                                                                                                                                  | 7803-57-8<br>302-01-2   | 206-114-9              |
| 49 | 1-methyl-2-pyrrolidone<br>N-甲基吡咯烷酮                                                                                                                              | 872-50-4                | 212-828-1              |

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| 50 | 1,2,3-trichloropropane<br>1,2,3-三氯丙烷                                                            | 96-18-4    | 202-486-1 |
| 51 | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich<br>邻苯二甲酸二 C6-8 支链烷基酯(富 C7) | 71888-89-6 | 276-158-1 |
| 52 | 铬酸铬<br>Dichromium tris(chromate)                                                                | 24613-89-6 | 246-356-2 |
| 53 | 氢氧化铬酸锌钾<br>Potassium hydroxyoctaoxodizincatedi-chromate                                         | 11103-86-9 | 234-329-8 |
| 54 | 锌黄<br>Pentazinc chromate octahydroxide                                                          | 49663-84-5 | 256-418-0 |
| 55 | 硅酸铝耐火陶瓷纤维 (RCF)<br>Aluminosilicate Refractory Ceramic Fibres (RCF)                              | -          | -         |
| 56 | 氧化锆硅酸铝耐火陶瓷纤维 (ZR -RCF)<br>Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)           | -          | -         |
| 57 | 甲醛与苯胺的低聚反应产物<br>Formaldehyde, oligomeric reaction products with aniline (technical MDA)         | 25214-70-4 | 500-036-1 |
| 58 | 邻苯二甲酸二甲氧乙酯<br>Bis(2-methoxyethyl) phthalate                                                     | 117-82-8   | 204-212-6 |
| 59 | 邻甲氧基苯胺<br>2-Methoxyaniline; o-Anisidine                                                         | 90-04-0    | 201-963-1 |
| 60 | 4-(1,1,3,3-四甲基丁基)苯酚 (4-(叔辛基)苯酚)<br>4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)     | 140-66-9   | 205-426-2 |
| 61 | 1,2-二氯乙烷<br>1,2-Dichloroethane                                                                  | 107-06-2   | 203-458-1 |
| 62 | 双(2-甲氧基乙基)醚<br>Bis(2-methoxyethyl) ether                                                        | 111-96-6   | 203-924-4 |
| 63 | 砷酸<br>Arsenic acid                                                                              | 7778-39-4  | 231-901-9 |
| 64 | 砷酸钙<br>Calcium arsenate                                                                         | 7778-44-1  | 231-904-5 |
| 65 | 砷酸铅<br>Trilead diarsenate                                                                       | 3687-31-8  | 222-979-5 |
| 66 | N,N-二甲基乙酰胺<br>N,N-dimethylacetamide (DMAC)                                                      | 127-19-5   | 204-826-4 |
| 67 | 2,2'-二氯-4,4'-二氨基二苯基甲烷<br>2,2'-dichloro-4,4'-methylenedianiline(MOCA)                            | 101-14-4   | 202-918-9 |

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| 68 | 酚酞<br>Phenolphthalein                                                                                                                                | 77-09-8    | 201-004-7 |
| 69 | 迭氮化铅<br>Lead azide Lead diazide                                                                                                                      | 13424-46-9 | 236-542-1 |
| 70 | 收敛酸铅<br>Lead styphnate                                                                                                                               | 15245-44-0 | 239-290-0 |
| 71 | 苦味酸铅<br>Lead dipicrate                                                                                                                               | 6477-64-1  | 229-335-2 |
| 72 | 三甘醇二甲醚(TEGDME)<br>1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)                                                                                  | 112-49-2   | 203-977-3 |
| 73 | 1,2-二甲氧基乙烷; (EGDME)<br>1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)                                                                   | 110-71-4   | 203-794-9 |
| 74 | 三氧化二硼<br>Diboron trioxide                                                                                                                            | 1303-86-2  | 215-125-8 |
| 75 | 甲酰胺<br>Formamide                                                                                                                                     | 75-12-7    | 200-842-0 |
| 76 | 甲基磺酸铅Lead(II)<br>bis(methanesulfonate)                                                                                                               | 17570-76-2 | 401-750-5 |
| 77 | 1,3,5-三缩水甘油-S-三嗪三酮;异氰尿酸三缩水甘油酯 TGIC<br>(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)                                             | 2451-62-9  | 219-514-3 |
| 78 | 1,3,5-三(环氧乙烷基甲基)-1,3,5-三嗪-2,4,6-(1H,3H,5H)-三酮立体异构体;<br>$\beta$ -TGIC (1,3,5-tris[(2S and R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) | 59653-74-6 | 423-400-0 |
| 79 | 4,4'-二(N,N-二甲氨基)二苯甲酮;米蚩酮;四甲基米氏酮<br>4,4'-bis(dimethylamino)benzophenone (Michler's ketone)                                                            | 90-94-8    | 202-027-5 |
| 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 (Michler's base)                                                        | 101-61-1   | 202-959-2 |
| 81 | 碱性紫3<br>[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammoniumchloride (C.I. Basic Violet 3)                       | 548-62-9   | 208-953-6 |
| 82 | 碱性蓝26<br>[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylenecyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)    | 2580-56-5  | 219-943-6 |

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| 83  | 溶剂蓝4<br>$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)<br>naphthalene-1-methanol (C.I. Solvent Blue 4) | 6786-83-0   | 229-851-8 |
| 84  | $\alpha,\alpha$ -二[(二甲氨基)苯基]-4-甲氨基苯甲醇<br>4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol                     | 561-41-1    | 209-218-2 |
| 85  | 二盐基邻苯二甲酸铅<br>[Phthalato(2-)]dioxotrilead                                                                             | 69011-06-9  | 273-688-5 |
| 86  | 1,2-苯二酸-二(支链与直链)戊基酯<br>1,2-Benzenedicarboxylic acid,dipentylester, branched and linear                               | 84777-06-0  | 284-032-2 |
| 87  | 乙二醇二乙醚<br>1,2-Diethoxyethane                                                                                         | 629-14-1    | 211-076-1 |
| 88  | 1-溴丙烷<br>1-Bromopropane                                                                                              | 106-94-5    | 203-445-0 |
| 89  | 3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷<br>3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine                                   | 143860-04-2 | 421-150-7 |
| 90  | 对特辛基苯酚乙氧基醚4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated                                                            | --          | --        |
| 91  | 4,4'-二氨基-3,3'-二甲基二苯甲烷<br>4,4'-Methylenedi-o-toluidine                                                                | 838-88-0    | 212-658-8 |
| 92  | 4,4'-二氨基二苯醚<br>4,4'-Oxydianiline                                                                                     | 101-80-4    | 202-977-0 |
| 93  | 4-氨基偶氮苯<br>4-Aminoazobenzene                                                                                         | 60-09-3     | 200-453-6 |
| 94  | 2,4-二氨基甲苯<br>4-Methyl-m-phenylenediamine                                                                             | 95-80-7     | 202-453-1 |
| 95  | 4-壬基(支链与直链)苯酚<br>4-Nonylphenol, branched and linear                                                                  | --          | --        |
| 96  | 2-甲氧基-5-甲基苯胺<br>6-Methoxy-m-toluidine                                                                                | 120-71-8    | 204-419-1 |
| 97  | 碱式乙酸铅<br>Acetic acid, lead salt, basic                                                                               | 51404-69-4  | 257-175-3 |
| 98  | 4-氨基联苯<br>Biphenyl-4-ylamine                                                                                         | 92-67-1     | 202-177-1 |
| 99  | 十溴二苯醚<br>Bis(pentabromophenyl)ether (DecaBDE)                                                                        | 1163-19-5   | 214-604-9 |
| 100 | 偶氮二甲酰胺<br>C,C'-azodi(formamide)                                                                                      | 123-77-3    | 204-650-8 |

|     |                                                                                                                                                                                                                            |                                                      |                                                  |
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| 101 | 二丁基二氯化锡<br>Dibutyltin dichloride                                                                                                                                                                                           | 683-18-1                                             | 211-670-0                                        |
| 102 | 硫酸二乙酯<br>Diethyl sulphate                                                                                                                                                                                                  | 64-67-5                                              | 200-589-6                                        |
| 103 | 邻苯二甲酸二异戊酯<br>Diisopentylphthalate (DIPP)                                                                                                                                                                                   | 605-50-5                                             | 210-088-4                                        |
| 104 | 硫酸二甲酯<br>Dimethyl sulphate                                                                                                                                                                                                 | 77-78-1                                              | 201-058-1                                        |
| 105 | 地乐酚 Dinoseb                                                                                                                                                                                                                | 88-85-7                                              | 201-861-7                                        |
| 106 | 双(十八酸基)二氧化三铅<br>Dioxobis(stearato)trilead                                                                                                                                                                                  | 12578-12-0                                           | 235-702-8                                        |
| 107 | C16-18-脂肪酸铅<br>Fatty acids, C16-18, lead salts                                                                                                                                                                             | 91031-62-8                                           | 292-966-7                                        |
| 108 | 呋喃 Furan                                                                                                                                                                                                                   | 110-00-9                                             | 203-727-3                                        |
| 109 | 全氟十一烷酸<br>Henicosafuoroundecanoic acid                                                                                                                                                                                     | 2058-94-8                                            | 218-165-4                                        |
| 110 | 全氟十四烷酸<br>Heptacosafuorotetradecanoic acid                                                                                                                                                                                 | 376-06-7                                             | 206-803-4                                        |
| 111 | 环己烷-1,2-二羧酸酐<br>Hexahydro-2-benzofuran-1,3-dione,<br>顺式-环己烷-1,2-二羧酸酐<br>cis-cyclohexane-1,2-dicarboxylicanhydride,<br>反式-环己烷-1,2-二羧酸酐<br>trans-cyclohexane-1,2-dicarboxylicanhydride                                       | 85-42-7<br>13149-00-3<br>14166-21-3                  | 201-604-9<br>236-086-3<br>238-009-9              |
| 112 | 甲基六氢邻苯二甲酸酐<br>Hexahydromethylphthalic anhydride,<br>4-甲基六氢邻苯二甲酸酐<br>Hexahydro-4-methylphthalic anhydride,<br>1-甲基六氢邻苯二甲酸酐<br>Hexahydro-1-methylphthalic anhydride,<br>3-甲基六氢邻苯二甲酸酐<br>Hexahydro-3-methylphthalic anhydride | 25550-51-0<br>19438-60-9<br>48122-14-1<br>57110-29-9 | 247-094-1<br>243-072-0<br>256-356-4<br>260-566-1 |
| 113 | 四氟硼酸铅*<br>Lead bis(tetrafluoroborate)                                                                                                                                                                                      | 13814-96-5                                           | 237-486-0                                        |
| 114 | 氨基氰铅盐<br>Lead cyanamidate*                                                                                                                                                                                                 | 20837-86-9                                           | 244-073-9                                        |
| 115 | 硝酸铅<br>Lead dinitrate*                                                                                                                                                                                                     | 10099-74-8                                           | 233-245-9                                        |



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| 116 | 一氧化铅<br>Lead monoxide*                            | 1317-36-8   | 215-267-0 |
| 117 | 碱式硫酸铅<br>Lead oxide sulphate*                     | 12036-76-9  | 234-853-7 |
| 118 | 四氧化三铅<br>Lead tetroxide*                          | 1314-41-6   | 215-235-6 |
| 119 | 钛酸铅<br>Lead titanium trioxide*                    | 12060-00-3  | 235-038-9 |
| 120 | 钛酸铅锆*<br>Lead Titanium Zirconium Oxide            | 12626-81-2  | 235-727-4 |
| 121 | 甲氧基乙酸<br>Methoxyacetic acid                       | 625-45-6    | 210-894-6 |
| 122 | N,N-二甲基甲酰胺<br>N,N-dimethylformamide               | 68-12-2     | 200-679-5 |
| 123 | N-甲基乙酰胺<br>N-methylacetamide                      | 79-16-3     | 201-182-6 |
| 124 | 邻苯二甲酸正戊基异戊基酯<br>N-pentyl-isopentylphthalate       | 776297-69-9 | --        |
| 125 | 邻-氨基偶氮甲苯<br>o-Aminoazotoluene                     | 97-56-3     | 202-591-2 |
| 126 | 2-氨基甲苯<br>o-Toluidine                             | 95-53-4     | 202-429-0 |
| 127 | 全氟十三烷酸<br>Pentacosafuorotridecanoic acid          | 72629-94-8  | 276-745-2 |
| 128 | 硫酸四氧化五铅*<br>Pentalead tetraoxide sulphate         | 12065-90-6  | 235-067-7 |
| 129 | 1,2-环氧丙烷<br>Propylene oxide                       | 75-56-9     | 200-879-2 |
| 130 | 铅锑黄*<br>Pyrochlore, antimony lead yellow          | 8012-00-8   | 232-382-1 |
| 131 | 掺杂铅的硅酸钡*<br>Silicic acid, barium salt, lead-doped | 68784-75-8  | 272-271-5 |
| 132 | 硅酸铅<br>Silicic acid, lead salt*                   | 11120-22-2  | 234-363-3 |
| 133 | 二碱式亚硫酸铅*<br>Sulfurous acid, lead salt, dibasic    | 62229-08-7  | 263-467-1 |
| 134 | 四乙基铅<br>Tetraethyllead                            | 78-00-2     | 201-075-4 |
| 135 | 硫酸三氧化四铅*<br>Tetralead trioxide sulphate           | 12202-17-4  | 235-380-9 |

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| 136 | 全氟十二烷酸<br>Tricosafuorododecanoic acid                                                                                                                                                                                                                                                                                                                     | 307-55-1   | 206-203-2 |
| 137 | 碱式碳酸铅*<br>Trilead bis(carbonate)dihydroxide                                                                                                                                                                                                                                                                                                               | 1319-46-6  | 215-290-6 |
| 138 | 二碱式亚磷酸铅*<br>Trilead dioxide phosphonate                                                                                                                                                                                                                                                                                                                   | 12141-20-7 | 235-252-2 |
| 139 | 镉<br>Cadmium                                                                                                                                                                                                                                                                                                                                              | 7440-43-9  | 231-152-8 |
| 140 | 氧化镉<br>Cadmium oxide                                                                                                                                                                                                                                                                                                                                      | 1306-19-0  | 215-146-2 |
| 141 | 邻苯二甲酸二戊酯<br>Dipentyl phthalate (DPP)                                                                                                                                                                                                                                                                                                                      | 131-18-0   | 205-017-9 |
| 142 | 4-壬基酚，支链和直连，乙氧基<br>4-Nonylphenol, branched and linear, ethoxylated<br>[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] | -          | -         |
| 143 | 全氟辛酸铵<br>Ammonium pentadecafluorooctanoate (APFO)                                                                                                                                                                                                                                                                                                         | 3825-26-1  | 223-320-4 |
| 144 | 全氟辛酸<br>Pentadecafluorooctanoic acid (PFOA)                                                                                                                                                                                                                                                                                                               | 335-67-1   | 206-397-9 |
| 145 | 硫化镉<br>Cadmium sulphide                                                                                                                                                                                                                                                                                                                                   | 1306-23-6  | 215-147-8 |
| 146 | C.I.直接黑38<br>Disodium<br>4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]<br>-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate<br>(C.I. Direct Black 38)                                                                                                                                                                               | 1937-37-7  | 217-710-3 |
| 147 | 邻苯二甲酸二己酯<br>Diethyl phthalate                                                                                                                                                                                                                                                                                                                             | 84-75-3    | 201-559-5 |
| 148 | 亚乙基硫脲<br>Imidazolidine-2-thione; (2-imidazoline-2-thiol)                                                                                                                                                                                                                                                                                                  | 96-45-7    | 202-506-9 |
| 149 | 磷酸三(二甲苯)酯<br>Triethyl phosphate                                                                                                                                                                                                                                                                                                                           | 25155-23-1 | 246-677-8 |
| 150 | C.I.直接红28<br>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 |
| 151 | 醋酸铅<br>Lead di(acetate)                                                                                                                                                                                                                                                                                                                                   | 301-04-2   | 206-104-4 |

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| 152 | 氯化镉<br>Cadmium chloride                                                                                                                                                                                                                                                                                                                                            | 10108-64-2                | 233-296-7              |
| 153 | 邻苯二甲酸二己酯（支链和直链）（DIHP）<br>1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear                                                                                                                                                                                                                                                                          | 68515-50-4                | 271-093-5              |
| 154 | 高硼酸钠<br>Sodium peroxometaborate                                                                                                                                                                                                                                                                                                                                    | 7632-04-4                 | 231-556-4              |
| 155 | 过硼酸钠；过硼酸钠盐<br>Sodium perborate; perboric acid, sodium salt                                                                                                                                                                                                                                                                                                         | -                         | 239-172-9<br>234-390-0 |
| 156 | 氟化镉<br>Cadmium fluoride                                                                                                                                                                                                                                                                                                                                            | 7790-79-6                 | 232-222-0              |
| 157 | 硫酸镉<br>Cadmium sulphate                                                                                                                                                                                                                                                                                                                                            | 10124-36-4;<br>31119-53-6 | 233-331-6              |
| 158 | 2-[2-羟基-3',5'-二叔丁基苯基]-苯並三唑（紫外線吸收劑320）<br>2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)                                                                                                                                                                                                                                                                      | 3846-71-7                 | 223-346-6              |
| 159 | 2-(2'-羟基-3',5'-二叔戊基苯基)苯並三唑（紫外線吸收劑328）<br>2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)                                                                                                                                                                                                                                                                  | 25973-55-1                | 247-384-8              |
| 160 | 二正辛基-双(2-乙基己基巯基乙酸酯)錫<br>2-ethylhexyl<br>10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)                                                                                                                                                                                                                                                  | 15571-58-1                | 239-622-4              |
| 161 | 二正辛基-双(2-乙基己基巯基乙酸酯)錫和單辛基-三(2-乙基己基巯基乙酸酯)錫的反應物<br>reaction mass of 2-ethylhexyl<br>10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl<br>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)                                                 | -                         | -                      |
| 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;<br>1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate                                                                                                                                       | 68515-51-5<br>68648-93-1  | 271-094-0<br>272-013-1 |
| 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]<br>5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1],<br>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] | -                         | -                      |

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| 164 | 硝基苯<br>Nitrobenzene                                                                                                                                                                                                                                                                                                                                              | 98-95-3                             | 202-716-0                   |
| 165 | 2,4-二-叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚(UV-327)<br>2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)                                                                                                                                                                                                                                                        | 3864-99-1                           | 223-383-8                   |
| 166 | 1,3-丙烷磺内酯<br>1,3-propanesultone                                                                                                                                                                                                                                                                                                                                  | 1120-71-4                           | 214-317-9                   |
| 167 | 2-(2H-苯并三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚 (UV-350)<br>2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)                                                                                                                                                                                                                                               | 36437-37-3                          | 253-037-1                   |
| 168 | 全氟壬酸及其钠盐和铵盐<br>Perfluorononan-1-oic-acid and its sodium and ammonium salts                                                                                                                                                                                                                                                                                       | 375-95-1<br>21049-39-8<br>4149-60-4 | 206-801-3<br>200-028-5      |
| 169 | 苯并(a)芘<br>Benzo[def]chrysene (Benzo[a]pyrene)                                                                                                                                                                                                                                                                                                                    | 50-32-8                             | 200-028-5                   |
| 170 | 4,4'-异亚丙基联苯酚 (双酚A)<br>4,4'-isopropylidenediphenol (bisphenol A; BPA)                                                                                                                                                                                                                                                                                             | 80-05-7                             | 201-245-8                   |
| 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  | 206-400-3<br>-<br>221-470-5 |
| 172 | 对叔戊基苯酚<br>p-(1,1-dimethylpropyl)phenol                                                                                                                                                                                                                                                                                                                           | 80-46-6                             | 201-280-9                   |
| 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]<br>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] |                                     |                             |
| 174 | 全氟己烷-1-磺酸及其盐<br>Perfluorohexane-1-sulphonic acid and its salts (PFHxS)                                                                                                                                                                                                                                                                                           | 355-46-4                            | 206-587-1                   |
| 175 | 苯并蒽(BaA)<br>Benz[a]anthracene                                                                                                                                                                                                                                                                                                                                    | 56-55-3,<br>1718-53-2               | 200-280-6                   |
| 176 | 碳酸镉#<br>Cadmium carbonate                                                                                                                                                                                                                                                                                                                                        | 513-78-0                            | 208-168-9                   |
| 177 | 氢氧化镉#<br>Cadmium hydroxide                                                                                                                                                                                                                                                                                                                                       | 21041-95-2                          | 244-168-5                   |
| 178 | 硝酸镉#<br>Cadmium nitrate                                                                                                                                                                                                                                                                                                                                          | 10022-68-1,<br>10325-94-7           | 233-710-6                   |
| 179 | 蒽(CHR)<br>Chrysene                                                                                                                                                                                                                                                                                                                                               | 218-01-9,<br>1719-03-5              | 205-923-4                   |

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| 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)<br>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]                                                                      | --                      | --        |
| 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(4-HPbl)重量比 $\geq 0.1\%$ ]<br>Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear (4-HPbl)] | --                      | --        |
| 182 | 1,2,4-苯三酸酐(偏苯三酸酐)(TMA)<br>Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride)                                                                                                                                                                                     | 552-30-7                | 209-008-0 |
| 183 | 邻苯二甲酸二环己酯(DCHP)<br>Dicyclohexyl phthalate                                                                                                                                                                                                                                            | 84-61-7                 | 201-545-9 |
| 184 | 苯并(g,h,i)苉(二萘嵌苯) (BPE)<br>Benzo[ghi]perylene                                                                                                                                                                                                                                         | 191-24-2                | 205-883-8 |
| 185 | 十甲基环五硅氧烷 (D5)<br>Decamethylcyclopentasiloxane (D5)                                                                                                                                                                                                                                   | 541-02-6                | 208-764-9 |
| 186 | 氧化硼钠#<br>Disodium octaborate                                                                                                                                                                                                                                                         | 12008-41-2              | 234-541-0 |
| 187 | 十二甲基环六硅氧烷 (D6)<br>Dodecamethylcyclohexasiloxane (D6)                                                                                                                                                                                                                                 | 540-97-6                | 208-762-8 |
| 188 | 乙二胺<br>Ethylenediamine (EDA)                                                                                                                                                                                                                                                         | 107-15-3                | 203-468-6 |
| 189 | 八甲基环四硅氧烷 (D4)<br>Octamethylcyclotetrasiloxane (D4)                                                                                                                                                                                                                                   | 556-67-2                | 209-136-7 |
| 190 | 氢化三联苯<br>Terphenyl, hydrogenated                                                                                                                                                                                                                                                     | 61788-32-7              | 262-967-7 |
| 191 | 铅#<br>Lead                                                                                                                                                                                                                                                                           | 7439-92-1               | 231-100-4 |
| 192 | 4,4'-(1,3-二甲基丁基)二苯酚<br>2,2-bis(4'-hydroxyphenyl)-4-methylpentane                                                                                                                                                                                                                     | 6807-17-6               | 401-720-1 |
| 193 | 苯并[k]荧蒹<br>Benzo[k]fluoranthene                                                                                                                                                                                                                                                      | 207-08-9                | 205-916-6 |
| 194 | 荧蒹<br>Fluoranthene                                                                                                                                                                                                                                                                   | 206-44-0;<br>93951-69-0 | 205-912-4 |

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| 195 | 菲<br>Phenanthrene                                                                                                                                                                                             | 85-01-8                | 201-581-5 |
| 196 | 芘<br>Pyrene                                                                                                                                                                                                   | 129-00-0;<br>1718-52-1 | 204-927-3 |
| 197 | 1,7,7-三甲基-3-(苯基亚甲基)双环[2.2.1]庚-2-酮酮(3-亚苄基樟脑)<br>1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one<br>(3-benzylidene camphor; 3-BC)                                                                 | 15087-24-8             | 239-139-9 |
| 198 | 2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其盐和酰基卤化物<br>(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) | -                      | -         |
| 199 | 2-甲氧基乙基乙酸酯<br>2-methoxyethyl acetate                                                                                                                                                                          | 110-49-6               | 203-772-9 |
| 200 | 4-叔丁基苯酚<br>4-tert-butylphenol                                                                                                                                                                                 | 98-54-4                | 202-679-0 |
| 201 | 三(4-壬基苯基, 支链和直链)亚磷酸酯(TNPP) (含<br>≥0.1%的支链和直链 4-壬基苯酚)<br>Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)<br>with ≥0.1% w/w of 4-nonylphenol, branched and linear(4-NP)                               | -                      | -         |
| 202 | 全氟丁烷磺酸(PFBS)及其盐<br>Perfluorobutane sulfonic acid (PFBS) and its salts                                                                                                                                         | -                      | -         |
| 203 | 邻苯二甲酸二异己酯<br>Diisohexyl phthalate                                                                                                                                                                             | 71850-09-4             | 276-090-2 |
| 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             | 400-600-6 |
| 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            | 404-360-3 |
| 206 | 1-乙烯基咪唑<br>1-vinylimidazole                                                                                                                                                                                   | 1072-63-5              | 214-012-0 |
| 207 | 2-甲基咪唑<br>2-methylimidazole                                                                                                                                                                                   | 693-98-1               | 211-765-7 |
| 208 | 对羟基苯甲酸丁酯<br>Butyl 4-hydroxybenzoate                                                                                                                                                                           | 94-26-8                | 202-318-7 |
| 209 | 双(乙酰丙酮基)二丁基锡<br>Dibutylbis(pentane-2,4-dionato-O,O')tin                                                                                                                                                       | 22673-19-4             | 245-152-0 |

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| 210 | 四乙二醇二甲醚<br>Bis(2-(2-methoxyethoxy)ethyl) ether                                                                                                                                                                                                                                              | 143-24-8                                        | 205-594-7 |
| 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 | -                                               | -         |
| 212 | 1,4-二氧六环（二恶烷）<br>1,4-dioxane                                                                                                                                                                                                                                                                | 123-91-1                                        | 204-661-8 |
| 213 | 二溴新戊二醇<br>三溴新戊醇<br>2,3-二溴-1-丙醇<br>2,2-bis(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 | -         |
| 214 | 铃兰醛及其异构体<br>2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers                                                                                                                                                                                                          | -                                               | -         |
| 215 | 2,2-双(4-羟基苯基)丁烷（双酚 B）<br>4,4'-(1-methylpropylidene) bisphenol (bisphenol B)                                                                                                                                                                                                                 | 77-40-7                                         | 201-025-1 |
| 216 | 戊二醛<br>Glutaral                                                                                                                                                                                                                                                                             | 111-30-8                                        | 203-856-5 |
| 217 | 中链氯化石蜡（MCCP）<br>（UVCB 物质：由含 ≥80% 的碳链长度 C14 至 C17 之间的直链氯化烷烃组成）<br>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]                                        | -                                               | -         |
| 218 | 原硼酸钠盐<br>Orthoboric acid, sodium salt                                                                                                                                                                                                                                                       | -                                               | -         |
| 219 | 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)                                                                         | -                                               | -         |



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| 220 | 2,2'-亚甲基双(4-甲基-6-叔丁基苯) (DBMC)<br>6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol                                                                                                                                                                                 | 119-47-1    | 204-327-1 |
| 221 | 乙烯基-三(2-甲氧基乙氧基)硅烷<br>tris(2-methoxyethoxy)vinylsilane                                                                                                                                                                                                         | 1067-53-4   | 213-934-0 |
| 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)<br>(±)-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                                         | -           | -         |
| 223 | S-(三环[5.2.1.0' <sup>2</sup> .6]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</sup> .6)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 | 401-850-9 |
| 224 | N-羟甲基丙烯酰胺<br>N-(hydroxymethyl)acrylamide                                                                                                                                                                                                                      | 924-42-5    | -         |
| 225 | 三聚氰胺<br>Melamine                                                                                                                                                                                                                                              | 108-78-1    | -         |
| 226 | 1,2-双(2,4,6-三溴苯氧基)乙烷<br>1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene] (BTBPE)                                                                                                                                                                      | 37853-59-1  | -         |
| 227 | 四溴双酚 A<br>2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBP-A)                                                                                                                                                                                           | 79-94-7     | -         |
| 228 | 4,4'-磺酰基二苯酚 (双酚 S)<br>4,4'-sulphonyldiphenol (BPS)                                                                                                                                                                                                            | 80-09-1     | -         |
| 229 | 偏硼酸钡<br>Barium diboron tetraoxide                                                                                                                                                                                                                             | 13701-59-2  | -         |
| 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)                                                                                                          | -           | -         |
| 231 | 全氟庚酸(PFHpA)及其盐<br>Perfluoroheptanoic acid (PFHpA) and its salts                                                                                                                                                                                               | -           | -         |
| 232 | 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<br>2,2,3,3,5,5,6,6-八氟-4-(七氟丙基)吗啉的反应产物<br>Reaction mass of<br>2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropyl)morpholine and<br>2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine      | -           | -         |
| 233 | 对羟基苯甲酸异丁酯 (尼泊金异丁酯)<br>Isobutyl 4-hydroxybenzoate                                                                                                                                                                                                              | 4247-02-3   | -         |



|     |                                                                          |            |           |
|-----|--------------------------------------------------------------------------|------------|-----------|
| 234 | 4,4'-二氯二苯砜<br>Bis(4-chlorophenyl) sulphone                               | 80-07-9    | 201-247-9 |
| 235 | 二苯基(2,4,6-三甲基苯甲酰基)氧化膦<br>Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 | 278-355-8 |