

# EDAC (Dongguan) Limited

Chang An Wu Sha International Park, Chang An Town, Dongguan, Guangdong Province, China

Tel: 86-769-85478068

Fax: 86-769-85846868

## REACH Statement

The European Union's REACH Directive (EC 1907/2006) is designed to regulate the Registration, Evaluation, Authorization and Restriction of Chemical Substances. REACH legislation was finalized in December 2006 and has been in effect since June 2007.

In an effort to address the requirements of the REACH regulation and ensure a reliable ongoing supply of EDAC parts, EDAC (Dongguan) Limited has contacted suppliers to confirm all necessary registration of in-scope substances in formulations, preparations, materials or articles be completed by the REACH deadlines. In addition, suppliers have been requested to assess the potential presence of Substances of Very High Concern (SVHC) due to the extension of the candidate list by additional substances on 16<sup>th</sup>, July 2019. The 201 SVHC substances listed here are not intentionally added or used in the manufacture of EDAC (Dongguan) Limited products.

As EDAC( Dongguan) Limited does not intentionally add SVHC and based on the "article" criteria in the REACH regulation, all articles manufactured by EDAC(Dongguan) limited are interpreted to be exempt from substance regulation and therefore compliant with the REACH regulation.

See chart on page 2,3,4,5,6,7,8,9,10 for SVHC list.

Engineering Director: Victor Lin

Signed/date:

  
Victor Lin 8/23/2019

Supplier chain Manager: Isbell Wei

Signed/date:

Isbell Wei 8/23/2019

Quality Manager: Jeffrey Zhao

Signed/date:

Jeffrey Zhao 2019.8.23

# 高度关注物质符合性声明(REACH)-附件

## Substances of Very High Concern (SVHC) Declaration (REACH)-Annex

第一批SVHC候选清单 (2008年10月28日公布, 共15种)

The First batch of SVHC list (published on Oct.28, 2008, total 15)

| 編號<br>NO. | CAS NO.  | 物质名称                             | SVHC Substance Name   | 含量(單位:<br>wt% )<br>threshold<br>(unit:wt%) |
|-----------|--|----------------------------------|---|--|
| 1         | 120-12-7   | 葱                                | Anthracene  | <0.1                                       |
| 2         | 101-77-9   | 4,4'-二氨基二苯基甲烷                    | 4,4'- Diaminodiphenylmethane  | <0.1                                       |
| 3         | 84-74-2  | 邻苯二甲酸二丁基酯                        | Dibutyl phthalate   | <0.1                                       |
| 4         | 7646-79-9  | 二氯化钴                             | Cobalt dichloride   | <0.1                                       |
| 5         | 1303-28-2  | 五氧化二砷                            | Diarsenic pentaoxide  | <0.1                                       |
| 6         | 1327-53-3  | 三氧化二砷                            | Diarsenic trioxide  | <0.1                                       |
| 7         | 7789-12-0  | 二水合重铬酸钠                          | Sodium dichromate   | <0.1                                       |
|           | 10588-01-9   | 重铬酸钠                             |   |  |
| 8         | 81-15-2  | 2,4,6-三硝基-3,3-二甲基-5-叔丁基苯 (二甲苯麝香) | 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)  | <0.1                                       |
| 9         | 117-81-7   | 邻苯二甲酸二(2-乙基己基)酯                  | Bis (2-ethyl(hexyl)phthalate) (DEHP)  | <0.1                                       |
| 10        | 25637-99-4   | 六溴环十二烷                           | Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ - HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) | <0.1                                       |
|           | 3194-55-6<br>(134237-51-7,<br>134237-50-6,<br>134237-52-8) | 1,2,5,6,9,10-六溴环十二烷              |   |  |
| 11        | 85535-84-8   | 短链型C10-13氯化石蜡                    | Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)   | <0.1                                       |
| 12        | 56-35-9  | 氧化雙三丁基锡                          | Bis(tributyltin)oxide   | <0.1                                       |
| 13        | 7784-40-9  | 砷酸氢铅                             | Lead hydrogen arsenate  | <0.1                                       |
| 14        | 85-68-7  | 邻苯二甲酸丁基苄酯                        | Benzyl butyl phthalate  | <0.1                                       |
| 15        | 15606-95-8   | 三乙砷酸酯                            | Triethyl arsenate   | <0.1                                       |

第二批SVHC候选清单 (2010年1月13日公布, 共13种)

The second batch of SVHC list (published on Jan.13, 2010, total 13)

|    |            |             |   |      |
|----|------------|-------------|---|------|
| 16 | 90640-80-5 | 葱油          | Anthracene oil                                      | <0.1 |
| 17 | 91995-17-4 | 葱油, 葱糊, 輕油  | Anthracene oil,anthracene paste,distn.Lights        | <0.1 |
| 18 | 91995-15-2 | 葱油, 葱糊, 葱餾分 | Anthracene oil,anthracene paste,anthracene fraction | <0.1 |
| 19 | 90640-82-7 | 葱油, 含葱油量少   | Anthracene oil,Anthracene-low                       | <0.1 |
| 20 | 90640-81-6 | 葱油, 葱糊      | Anthracene oil,anthracene paste                     | <0.1 |
| 21 | 84-69-5    | 鄰苯二甲酸二異丁酯   | Diisobutyl phthalate(DIBP)                          | <0.1 |
| 22 | 121-14-2   | 2,4-二硝基甲苯   | 2,4-Dinitrotoluene                                  | <0.1 |
| 23 | 65996-93-2 | 煤瀝青, 高溫     | Coal tar pitch,high temperature                     | <0.1 |
| 24 | 115-96-8   | 三(2-氯乙基)磷酸酯 | Tris(2-chloroethyl)phosphate(TCEP)                  | <0.1 |

|    |            |                |  |      |
|----|------------|----------------|--|------|
| 25 | 1344-37-2  | 鉻酸鉛；C.I.顏料黃34  | Lead sulfochromate yellow(C.I.Pigment Yellow 34)         | <0.1 |
| 26 | 12656-85-8 | 鉬鉻紅；C.I.顏料黃104 | Lead chromate molybdate sulfate red(C.I.Pigment Red 104) | <0.1 |
| 27 | 7758-97-6  | 鉻酸鉛；鉻黃         | Lead Chromate  | <0.1 |
| 28 | 79-06-1    | 丙烯酰胺           | Acrylamide   | <0.1 |

**第三批SVHC候選清單（2010年6月18日公布，共8種）**

**The third batch of SVHC list (published on June.18, 2010, total 8)**

|    |                                      |        |   |      |
|----|--------------------------------------|--------|---|------|
| 29 | 79-01-6                              | 三氯乙烯   | Trichloroethylene                       | <0.1 |
| 30 | 10043-35-3<br>11113-50-1             | 硼酸     | Boric acid                              | <0.1 |
| 31 | 1330-43-4<br>12179-04-3<br>1303-96-4 | 無水四硼酸鈉 | Disodium tetraborate, anhydrous         | <0.1 |
| 32 | 12267-73-1                           | 水合四硼酸鈉 | Tetraboron disodium heptaoxide, hydrate | <0.1 |
| 33 | 7775-11-3                            | 鉻酸鈉    | Sodium chromate                         | <0.1 |
| 34 | 7789-00-6                            | 鉻酸鉀    | Potassium chromate                      | <0.1 |
| 35 | 7789-09-5                            | 重鉻酸銨   | Ammonium dichromate                     | <0.1 |
| 36 | 7778-50-9                            | 重鉻酸鉀   | Potassium dichromate                    | <0.1 |

**第四批SVHC候選清單（2010年12月15日公布，共8種）**

**The fourth batch of SVHC list (published on Dec.15, 2010, total 8)**

|    |                         |  |  |      |
|----|-------------------------|--|--|------|
| 37 | 10124-43-3              | 硫酸鈷                                      | Cobalt (II) sulphate   | <0.1 |
| 38 | 10141-05-6              | 硝酸鈷                                      | Cobalt (II) dinitrate  | <0.1 |
| 39 | 513-79-1                | 碳酸鈷                                      | Cobalt (II) carbonate  | <0.1 |
| 40 | 71-48-7                 | 醋酸鈷                                      | Cobalt (II) diacetate  | <0.1 |
| 41 | 109-86-4                | 乙二醇單甲醚                                   | 2-Methoxyethanol   | <0.1 |
| 42 | 110-80-5                | 乙二醇單乙醚                                   | 2-Ethoxyethanol  | <0.1 |
| 43 | 1333-82-0               | 三氧化鉻                                     | Chromium trioxide  | <0.1 |
| 44 | 7738-94-5<br>13530-68-2 | 鉻酸及其低聚物產生的酸類：<br>鉻酸<br>重鉻酸<br>鉻酸及重鉻酸的低聚物 | Acids generated from chromium trioxide and their oligomers :<br>Chromic acid<br>Dichromic acid<br>Oligomers of chromic acid and dichromic acid | <0.1 |

**第五批SVHC候選清單（2011年6月20日公布，共7種）**

**The fifth batch of SVHC list (published on June.20, 2011, total 7)**

|    |                       |                             |  |      |
|----|-----------------------|-----------------------------|--|------|
| 45 | 111-15-9              | 乙二醇乙醚醋酸酯                    | 2-ethoxyethyl acetate  | <0.1 |
| 46 | 7789-06-2             | 鉻酸銣                         | Strontium chromate   | <0.1 |
| 47 | 68515-42-4            | 1,2-苯二酸-二(C7-11支鏈與直鏈)烷基(醇)酯 | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters. | <0.1 |
| 48 | 302-01-2<br>7803-57-8 | 聯胺，也稱：胛                     | Hydrazine  | <0.1 |
| 49 | 872-50-4              | 1-甲基吡咯烷酮                    | 1-methyl-2-pyrrolidone   | <0.1 |
| 50 | 96-18-4               | 1,2,3-三氯丙烷                  | 1,2,3-trichloropropane   | <0.1 |

|    |            |                 |  |      |
|----|------------|-----------------|--|------|
| 51 | 71888-89-6 | 鄰苯二甲酸二異庚酯(DIHP) | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich(DIHP) | <0.1 |
|----|------------|-----------------|--|------|

**第六批SVHC候選清單 (2011年12月19日公布, 共20種)**  
**The sixth batch of SVHC list (published on Dec.19, 2011, total 20)**

|    |            |                                |   |      |
|----|------------|--------------------------------|---|------|
| 52 | 24613-89-6 | 鉻酸鉛                            | Dichromium tris(chromate)   | <0.1 |
| 53 | 11103-86-9 | 氫氧化鉻酸鋅鉀                        | Potassium hydroxyoctaoxodizincatedi-chromat                             | <0.1 |
| 54 | 49663-84-5 | 鋅黃                             | Pentazinc chromate octahydroxide  | <0.1 |
| 55 | -          | 矽酸鋁耐火陶瓷纖維(RCF)                 | Aluminosilicate Refractory Ceramic Fibres (RCF)                         | <0.1 |
| 56 | -          | 氧化鋯矽酸鋁耐火陶瓷纖維(ZR-RCF)           | Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)             | <0.1 |
| 57 | 25214-70-4 | 甲醛與苯胺的低聚反應產物                   | Formaldehyde, oligomeric reaction products with aniline (technical MDA) | <0.1 |
| 58 | 117-82-8   | 鄰苯二甲酸二甲氧乙酯(DMEP)               | Bis(2-methoxyethyl) phthalate (DMEP)                                    | <0.1 |
| 59 | 90-04-0    | 鄰甲氧基苯胺                         | 2-Methoxyaniline; o-Anisidine   | <0.1 |
| 60 | 140-66-9   | 4-(1,1,3,3-四甲基丁基)苯酚(4-(叔辛基)苯酚) | 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)                | <0.1 |
| 61 | 107-06-2   | 1,2-二氯乙烷                       | 1,2-Dichloroethane  | <0.1 |
| 62 | 111-96-6   | 雙(2-甲氧基乙基)醚                    | Bis(2-methoxyethyl) ether   | <0.1 |
| 63 | 7778-39-4  | 砷酸                             | Arsenic acid  | <0.1 |
| 64 | 7778-44-1  | 砷酸鈣                            | Calcium arsenate  | <0.1 |
| 65 | 3687-31-8  | 砷酸鉛                            | Trilead diarsenate  | <0.1 |
| 66 | 127-19-5   | N,N-二甲基乙酰胺                     | N,N-dimethylacetamide (DMAC)  | <0.1 |
| 67 | 101-14-4   | 2,2'-二氯-4,4'-二氨基二苯基甲烷          | 2,2'-dichloro-4,4'-methylenedianiline (MOCA)                            | <0.1 |
| 68 | 77-09-8    | 酚酞                             | Phenolphthalein   | <0.1 |
| 69 | 13424-46-9 | 迭氮化鉛                           | Lead azide Lead diazide   | <0.1 |
| 70 | 15245-44-0 | 收斂酸鉛                           | Lead styphnate  | <0.1 |
| 71 | 6477-64-1  | 苦味酸鉛                           | Lead dipicrate  | <0.1 |

**第七批SVHC候選清單 (2012年6月18日公布, 共13種)**  
**The Seventh batch of SVHC list (published on June.18, 2012, total 13)**

|    |            |                   |   |      |
|----|------------|-------------------|---|------|
| 72 | 112-49-2   | 1,2-二(2-甲氧基乙氧基)乙烷 | 1,2-bis(2-methoxyethoxy)ethane(TEGDME; triglyme)                                      | <0.1 |
| 73 | 110-71-4   | 乙二醇二甲醚            | 1,2-dimethoxyethane; ethylene glycol dimethyl ether(EGDME)                            | <0.1 |
| 74 | 1303-86-2  | 三氧化二硼             | Diboron trioxide  | <0.1 |
| 75 | 75-12-7    | 甲酰胺               | Formamide   | <0.1 |
| 76 | 17570-76-2 | 甲基磺酸鉛             | Lead(II) bis (methanesulfonate)   | <0.1 |
| 77 | 2451-62-9  | 異氰尿酸三縮水甘油酯        | TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)                | <0.1 |
| 78 | 59653-74-6 | 異氰尿酸β-三縮水甘油酯      | β-TGIC(1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) | <0.1 |

|    |           |                                       |  |      |
|----|-----------|---------------------------------------|--|------|
| 79 | 90-94-8   | 4,4'-二(N,N-二甲氨基)二苯甲酮(米氏酮)             | 4,4'-bis(dimethylamino)benzophenone(Michler's ketone)  | <0.1 |
| 80 | 101-61-1  | 4,4'-(對二甲氨基)二苯甲基烷(米氏鹼)                | N,N,N',N'-tetramethyl-4,4'-methylenedianiline(Michler's base)  | <0.1 |
| 81 | 548-62-9  | C.I.鹼性紫3                              | [4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)                | <0.1 |
| 82 | 2580-56-5 | C.I.鹼性藍26                             | [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride(C.I.Basic Blue 26) | <0.1 |
| 83 | 6786-83-0 | C.I.溶劑藍4                              | $\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)                               | <0.1 |
| 84 | 561-41-1  | $\alpha,\alpha$ -二[(二甲氨基)苯基]-4-甲氨基苯甲醇 | 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol  | <0.1 |

**第八批SVHC候選清單 (2012年12月19日公布, 共54種)**  
**The Eighth batch of SVHC list (published on Dec.19, 2012, total 54)**

|    |   |  |   |      |
|----|---|--|---|------|
| 85 | 1163-19-5   | 十溴聯苯醚  | Bis(pentabromophenyl) decabromodiphenyl ether (DecaBDE)   | <0.1 |
| 86 | 72629-94-8  | 全氟十三酸  | Pentacosafuorotridecanoic acid  | <0.1 |
| 87 | 307-55-1  | 全氟十二酸  | Tricosafuorododecanoic acid   | <0.1 |
| 88 | 2058-94-8   | 全氟十一酸  | Henicosafuoroundecanoic acid  | <0.1 |
| 89 | 376-06-7  | 全氟十四酸  | Heptacosafuorotetradecanoic acid  | <0.1 |
| 90 | -   | 4-(1,1,3,3-四甲基丁基)苯酚,乙氧基-以及所有的被定義的物質,未知成分或可變成分的物質,聚合物和同系物 | 4-(1,1,3,3-tetramethylbutyl)phenol ethoxylated  | <0.1 |
| 91 | -   | 分支或線性的壬基酚,包括含有9個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支9個碳基烷基鏈的UVCB物質  | 4-Nonylphenol, branched and linear  | <0.1 |
| 92 | 123-77-3  | 偶氮二甲醯胺   | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))   | <0.1 |
| 93 | 85-42-7<br>13149-00-3<br>14166-21-3                     | 六氫鄰苯二甲酸酐   | Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride[2] trans-cyclohexane-1,2-dicarboxylic anhydride                           | <0.1 |
| 94 | 25550-51-0,<br>19438-60-9,<br>48122-14-1,<br>57110-29-9 | 甲基六氫苯酐、4-甲基六氫苯酐、甲基六氫化鄰苯二甲酸酐、3-甲基六氫苯二甲酸酐                  | Hexahydromethylphthalic anhydride[1], Hexahydro-4-methylphthalic anhydride[2], Hexahydro-1-methylphthalic anhydride[3], Hexahydro-3-methylphthalic anhydride[4] | <0.1 |
| 95 | 625-45-6  | 甲氧基乙酸  | Methoxy acetic acid   | <0.1 |
| 96 | 84777-06-0  | 支鏈和直鏈1,2-苯二羧二戊酯  | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear  | <0.1 |
| 97 | 605-50-5  | 鄰苯二甲酸二異戊酯  | Diisopentylphthalate (DIPP)   | <0.1 |

|     |             |                              |  |      |
|-----|-------------|------------------------------|--|------|
| 98  | 776297-69-9 | 邻苯二甲酸正戊基异戊基酯                 | N-pentyl-isopentylphthalate  | <0.1 |
| 99  | 629-14-1    | 乙二醇二乙醚                       | 1,2-diethoxyethane   | <0.1 |
| 100 | 68-12-2     | N,N-二甲基甲酰胺                   | N,N-dimethylformamide  | <0.1 |
| 101 | 683-18-1    | 二氯二丁基锡                       | Dibutyltin dichloride (DBTC)   | <0.1 |
| 102 | 51404-69-4  | 碱式醋酸铅                        | Acetic acid, lead salt, basic  | <0.1 |
| 103 | 1319-46-6   | 碱式碳酸铅                        | trilead bis(carbonate)dihydroxide  | <0.1 |
| 104 | 12036-76-9  | 碱式硫酸铅                        | Lead oxide sulfate   | <0.1 |
| 105 | 69011-06-9  | [1,2-苯二羧酸根合]二氧化三铅            | [Phthalato(2-)]dioxotrilead  | <0.1 |
| 106 | 12578-12-0  | 双(十八酸基)二氧代三铅                 | Dioxobis(stearato)trilead  | <0.1 |
| 107 | 91031-62-8  | C16-18-脂肪酸铅盐                 | Fatty acids, C16-18, lead salts  | <0.1 |
| 108 | 13814-96-5  | 四氟硼酸铅                        | Lead bis(tetrafluoroborate)  | <0.1 |
| 109 | 20837-86-9  | 氨基氰铅盐                        | Lead cyanidate   | <0.1 |
| 110 | 10099-74-8  | 硝酸铅                          | Lead dinitrate   | <0.1 |
| 111 | 1317-36-8   | 氧化铅                          | Lead monoxide (Lead oxide)   | <0.1 |
| 112 | 1314-41-6   | 四氧化铅                         | Orange lead (Lead tetroxide)   | <0.1 |
| 113 | 12060-00-3  | 钛酸铅                          | Lead titanium trioxide   | <0.1 |
| 114 | 12626-81-2  | 钛酸铅锆                         | Lead titanium zirconium oxide  | <0.1 |
| 115 | 12065-90-6  | 氧化铅与硫酸铅的复合物                  | Pentalead tetraoxide sulphate  | <0.1 |
| 116 | 8012-00-8   | C.I. 颜料黄41                   | Pyrochlore, antimony lead yellow   | <0.1 |
| 117 | 68784-75-8  | 含铅的矽酸钡                       | Silicic acid(H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> )barium salt(1:1), lead-doped | <0.1 |
| 118 | 11120-22-2  | 矽酸铅                          | Silicic acid, lead salt  | <0.1 |
| 119 | 62229-08-7  | 亚硫酸铅(II)                     | Sulfurous acid, lead salt, dibasic   | <0.1 |
| 120 | 78-00-2     | 四乙基铅                         | Tetraethyllead   | <0.1 |
| 121 | 12202-17-4  | 三碱式硫酸铅三、C.I. 颜料白             | Tetralead trioxide sulphate  | <0.1 |
| 122 | 12141-20-7  | 磷酸氧化铅                        | Trilead dioxide phosphonate  | <0.1 |
| 123 | 110-00-9    | 呋喃                           | Furan  | <0.1 |
| 124 | 75-56-9     | 环氧丙烷                         | Methyloxirane ( Propylene oxide)   | <0.1 |
| 125 | 64-67-5     | 硫酸二乙酯                        | Diethyl sulphate   | <0.1 |
| 126 | 77-78-1     | 硫酸二甲酯                        | Dimethyl sulphate  | <0.1 |
| 127 | 143860-04-2 | 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                                       | <0.1 |
| 128 | 88-85-7     | 2-(1-甲基丙基)-4,6-二硝基苯酚         | Dinoseb (6-sec-butyl-2,4-dinitrophenol)  | <0.1 |
| 129 | 838-88-0    | 4,4'-二氨基-3,3'-二甲基联苯基甲烷       | 4,4'-methylenedi-o-toluidine   | <0.1 |
| 130 | 101-80-4    | 4,4'-二氨基二苯醚                  | 4,4'-oxydianiline and its salts  | <0.1 |

|     |          |              |   |      |
|-----|----------|--------------|---|------|
| 131 | 60-09-3  | 4,4'-二氨基二苯醚  | 4-Aminoazobenzene                                 | <0.1 |
| 132 | 95-80-7  | 2,4-二氨基甲苯    | 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | <0.1 |
| 133 | 120-71-8 | 2-甲氧基-5-甲基苯胺 | 6-methoxy-m-toluidine (p-cresidine)               | <0.1 |
| 134 | 92-67-1  | 4-氨基联苯       | Biphenyl-4-ylamine                                | <0.1 |
| 135 | 97-56-3  | 邻氨基偶氮甲苯      | o-aminoazotoluene (4-o-tolylazo-0-toluidinel)     | <0.1 |
| 136 | 95-53-4  | 邻甲苯胺         | o-toluidine                                       | <0.1 |
| 137 | 79-16-3  | N-甲基乙酰胺      | N-methylacetamide                                 | <0.1 |
| 138 | 106-94-5 | 正丙基溴         | 1-bromopropane (n-propyl bromide )                | <0.1 |

**第九批SVHC候选清单 (2013年6月20日公布, 共6种)**

**The Ninth batch of SVHC list (published on June.20, 2013, total 6)**

|     |           |  |  |      |
|-----|-----------|--|--|------|
| 139 | 7440-43-9 | 镉  | Cadmium  | <0.1 |
| 140 | 1306-19-0 | 氧化镉  | Cadmium oxide  | <0.1 |
| 141 | 131-18-0  | 邻苯二甲酸二正戊酯  | Dipentyl phthalate (DPP)   | <0.1 |
| 142 | -         | 乙氧基化的支链和直链的4-壬基酚 (直链的或线性的) (包括含有9个碳烷基链的所有直链和支链的结构) | 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] | <0.1 |
| 143 | 3825-26-1 | 全氟辛酸铵 (APFO)                                       | Ammonium pentadecafluorooctanate (APFO)  | <0.1 |
| 144 | 335-67-1  | 全氟辛酸   | Pentadecafluorooctanoic acid (PFOA)  | <0.1 |

**第十批SVHC候选清单 (2013年12月16日公布, 共7种)**

**The Tenth batch of SVHC list (published on Dec.16, 2013, total 7)**

|     |            |   |  |      |
|-----|------------|---|--|------|
| 145 | 1306-23-6  | 硫化镉 (镉黄)  | Cadmium sulphide   | <0.1 |
| 146 | 84-75-3    | 邻苯二甲酸二己酯 (DnHP)   | Dihexyl phthalate  | <0.1 |
| 147 | 573-58-0   | 3,3'-[[1,1'-联苯]-4,4'-基双(偶氮)]双(4-氨基萘-1-磺酸)二钠 (C.I.直接红28) | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)   | <0.1 |
| 148 | 1937-37-7  | 直接黑 38  | 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) | <0.1 |
| 149 | 96-45-7    | 1,2-亚乙基硫脲   | Imidazolidine-2-thione; 2-imidazoline-2-thiol  | <0.1 |
| 150 | 301-04-2   | 铅底 (醋酸)   | Lead di(acetate)   | <0.1 |
| 151 | 25155-23-1 | 磷酸三(二甲苯)酯   | Trixylyl phosphate   | <0.1 |

**第11批SVHC候选清单 (2014年6月16日公布, 共4种)**

**The Eleventh batch of SVHC list (published on June.16, 2014, total 4)**

|     |            |                  |  |      |
|-----|------------|------------------|--|------|
| 152 | 10108-64-2 | 氯化镉              | Cadmium chloride   | <0.1 |
| 153 | 68515-50-4 | 邻苯二甲酸二己酯 (支链和直链) | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | <0.1 |
| 154 | 7632-04-4  | 过氧偏硼酸钠           | Sodium peroxometaborate  | <0.1 |
| 155 | -          | 过硼酸钠             | Sodium perborate; perboric acid, sodium salt                     | <0.1 |

第12批SVHC候选清单（2014年12月17日公布，共6种）

The 12th batch of SVHC list (published on Dec.17, 2014, total 6)

|     |                           |               |   |      |
|-----|---------------------------|---------------|---|------|
| 156 | 7790-79-6                 | 氟化镉           | Cadmium fluoride  | <0.1 |
| 157 | 10124-36-4,<br>31119-53-6 | 硫酸镉           | Cadmium sulphate  | <0.1 |
| 158 | 3846-71-7                 | UV-320        | 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)  | <0.1 |
| 159 | 25973-55-1                | UV328         | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)  | <0.1 |
| 160 | 15571-58-1                | DOTE          | 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)  | <0.1 |
| 161 | -                         | DOTE和MOTE反应产物 | 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 (reaction mass of DOT E and MOTE) | <0.1 |

第13批SVHC候选清单（2015年6月15日公布，共2种）

The 13th batch of SVHC list (published on June.15, 2015, total 2)

|     |                          |  |   |      |
|-----|--------------------------|--|---|------|
| 162 | 68515-51-5<br>68648-93-1 | 邻苯二甲酸二（C6-C10）烷基酯  | 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)   | <0.1 |
| 163 | 117933-89-8              | 5-二叔丁基-2-(2,4-二甲基环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1], 5-二叔丁基-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] | <0.1 |

第14批SVHC候选清单（2015年12月17日公布，共5种）

The 14th batch of SVHC list (published on Dec.17, 2015, total 5)

|     |                                     |  |  |      |
|-----|-------------------------------------|--|--|------|
| 164 | 98-95-3                             | 硝基苯  | Nitrobenzene   | <0.1 |
| 165 | 3864-99-1                           | 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)       | <0.1 |
| 166 | 36437-37-3                          | 2-(2H-苯并三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚 (UV-350) | 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) | <0.1 |
| 167 | 1120-71-4                           | 1,3-丙烷磺内酯                                  | 1,3-propanesultone   | <0.1 |
| 168 | 375-95-1<br>21049-39-8<br>4149-60-4 | 全氟壬基-1- OIC酸和其钠盐和铵盐                        | Perfluorononan-1-oic-acid and its sodium and ammonium salts          | <0.1 |



**第15批SVHC候选清单 (2016年6月20日公布, 共1种)**  
**The 15th batch of SVHC list (published on June.20, 2016, total 1)**

|     |         |                 |                                     |      |
|-----|---------|-----------------|-------------------------------------|------|
| 169 | 50-32-8 | 苯并(def)屈 (苯并a芘) | Benzo[def]chrysene (Benzo[a]pyrene) | <0.1 |
|-----|---------|-----------------|-------------------------------------|------|

**第16批SVHC候选清单 (2017年1月12日公布, 共4种)**  
**The 16th batch of SVHC list (published on Jan.12, 2017, total 4)**

|     |                                    |   |   |      |
|-----|------------------------------------|---|---|------|
| 170 | 80-05-7                            | 4,4'-异亚丙基二酚 (双酚A-BPA)   | 4,4'-isopropylidenediphenol (bisphenol A)   | <0.1 |
| 171 | 335-76-2<br>3830-45-3<br>3108-42-7 | 全氟癸酸 (PFDA) 及其钠盐和铵盐   | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts  | <0.1 |
| 172 | 80-46-6                            | 4-叔戊基苯酚   | 4-tert-pentylphenol(PTAP)   | <0.1 |
| 173 | -                                  | 4-庚基苯酚, 支链与直链 (直链和/或支链的具有7个碳原子的烷基链共价键在4位苯酚, 包括了UVCB和定义明确的物质, 其中包括任何单独异构体和/或它们的组合) | 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 combination thereof] | <0.1 |

**第17批SVHC候选清单 (2017年6月28日公布, 共1种)**  
**The 17th batch of SVHC list (published on Jun.28, 2017, total 1)**

|     |          |                   |  |      |
|-----|----------|-------------------|--|------|
| 174 | 355-46-4 | 全氟己基磺及其盐类 (PFHxS) | Perfluorohexane-1-sulphonic acid and its salts (PFHxS) | <0.1 |
|-----|----------|-------------------|--|------|

**第18批SVHC候选清单 (2018年1月15日公布, 共7种)**  
**The 18th batch of SVHC list (published on Jan.15, 2018, total 7)**

|     |            |   |  |      |
|-----|------------|---|--|------|
| 175 | 13560-89-9 | 德克隆   | Dodecachloropentacyclo   | <0.1 |
| 176 | 56-55-3    | 苯并[a]蒽  | Benz[a]anthracene  | <0.1 |
| 177 | 10325-94-7 | 硝酸镉   | Cadmium nitrate  | <0.1 |
| 178 | 513-78-0   | 碳酸镉   | Cadmium carbonate  | <0.1 |
| 179 | 21041-95-2 | 氢氧化镉  | Cadmium hydroxide  | <0.1 |
| 180 | 218-01-9   | 屈   | Chrysene   | <0.1 |
| 181 | -          | 1,3,4-噻二唑烷-2,5-二硫酮, 甲醛和4-庚基苯酚的支链和直链 (RP-HP) 的反应产物 [4-庚基苯酚, 支链和直链含量 ≥ 0.1%w / w] | 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 ] | <0.1 |

第19批SVHC候选清单 (2018年6月27日公布, 共10种)

The 19th batch of SVHC list (published on Jun.27, 2018, total 10)

|     |            |                  |  |      |
|-----|------------|------------------|--|------|
| 182 | 556-67-2   | 八甲基环四硅氧烷 (D4)    | Octamethylcyclotetrasiloxane (D4)  | <0.1 |
| 183 | 541-02-6   | 十甲基环四硅氧烷 (D5)    | Decamethylcyclopentasiloxane (D5)  | <0.1 |
| 184 | 540-97-6   | 十二甲基环四硅氧烷 (D6)   | Dodecamethylcyclohexasiloxane (D6)   | <0.1 |
| 185 | 7439-92-1  | 铅                | Lead   | <0.1 |
| 186 | 12008-41-2 | 八硼酸二钠            | Disodium octaborate  | <0.1 |
| 187 | 191-24-2   | 苯并(g, h, i)芘     | Benzo[ghi]perylene   | <0.1 |
| 188 | 61788-32-7 | 氢化三联苯            | Terphenyl hydrogenated   | <0.1 |
| 189 | 107-15-3   | 乙二胺 (EDA)        | Ethylenediamine (EDA)  | <0.1 |
| 190 | 552-30-7   | 偏苯三酸酐 (TMA)      | Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA) | <0.1 |
| 191 | 84-61-7    | 邻苯二甲酸二环己酯 (DCHP) | Dicyclohexyl phthalate (DCHP)  | <0.1 |

第20批SVHC候选清单 (2019年1月15日公布, 共6种)

The 20th batch of SVHC list (published on Jan. 15, 2019, total 6)

|     |                         |                         |   |      |
|-----|-------------------------|-------------------------|---|------|
| 192 | 15087-24-8              | 4, 4' - (1, 3-二甲基丁基)二苯酚 | 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one | <0.1 |
| 193 | 6807-17-6               | 苯并(k)荧蒽                 | 2,2-bis(4'-hydroxyphenyl)-4-methylpentane                     | <0.1 |
| 194 | 207-08-9                | 荧蒽                      | Benzo[k]fluoranthene  | <0.1 |
| 195 | 206-44-0;<br>93951-69-0 | 菲                       | Fluoranthene  | <0.1 |
| 196 | 31055                   | 芘                       | Phenanthrene  | <0.1 |
| 197 | 129-00-0;<br>1718-52-1  | 全氟己酸及其铵盐                | Pyrene  | <0.1 |

第21批SVHC候选清单 (2019年7月16日公布, 共4种)

The 21st batch of SVHC list (published on Jul. 16, 2019, total 4)

|     |          |  |  |      |
|-----|----------|--|--|------|
| 198 | -        | 参(支鍊和直鍊4-壬基苯基)亞磷酸酯 (TNPP), 含有 ≥ 0.1%w / w 的支鍊和直鍊4-壬基酚 (4-NP) | Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)                       | <0.1 |
| 199 | 98-54-4  | 4-三級丁酚   | 4-tert-butylphenol   | <0.1 |
| 200 | 110-49-6 | 乙酸2-甲氧基乙酯  | 2-methoxyethyl acetate   | <0.1 |
| 201 | -        | 2, 3, 3, 3-四氟-2-(七氟丙氧基)丙酸、其鹽類及其酰基鹵化物(包含其各自的異構)               | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides<br><br>covering any of their individual isomers and | <0.1 |

Note : 0.1wt%=1000ppm