



检测报告

TEST REPORT

报告编号/ Report No..... : WTH23H02016733C

委托方/ Applicant : 珠海极海半导体有限公司/ Geehy Semiconductor Co.,Ltd.

地址/ Address : 珠海市香洲区广湾街 83 号 01 栋/ Building 1, No.83
Guangwan Street, Zhuhai, Guangdong, China

样品名称/ Sample Name : 通用 MCU

样品型号/ Sample Model..... : APM32F407ZGT6

客户参考信息/ Client's Ref. Info. : APM32F407xxTx

检测要求/ Test Requested : 根据客户要求, 参照法规(EC) No 1907/2006 (REACH), 筛选高关注物质 233 项高关注物质(SVHC)项, 物质清单为欧盟化学品管理局 (ECHA) 公布的清单。 / As specified by client, refer to EU Regulation (EC) No 1907/2006 (REACH), to screen Substances of Very High Concern 233 Substances of Very High Concern (SVHC)in the sample. The list is the one that is published by European Chemicals Administration (ECHA).

样品接收日期/ Date of Receipt sample : 2023-02-10

检测周期/ Testing period : 2023-02-10 ~ 2023-02-15

报告日期/ Date of Issue..... : 2023-02-17

检测结果/ Test Result..... : 参见报告下页/ Refer to next page (s)

报告制作/ Prepared By:
深圳市虹彩检测技术有限公司

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Signed for and on behalf of
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检测结果/ Test Result(s):

检测方法/仪器/ Test Method/Equipment: HCT/SZ-SOP-WJ-PI034, HCT/SZ-SOP-YJ-PI053; ICP-OES/GC-MS (HS)/HPLC-DAD-MS/ IC/AAS/UV-VIS

| 项目 Item(s) | RL(%) | 结果/ Result(s)(%) |
|--|-------|------------------|
| | | 1 |
| 233 项高关注物质(SVHC) 233 Substances of Very High Concern (SVHC) | / | ND |

备注/ Note:

0.1%=1000mg/kg

mg/kg (毫克每千克) = ppm (百万分之)/ mg/kg (milligram per kilogram) = ppm (parts per million)

ND=未检出/ ND=Not Detected

RL=Reporting Limit

根据客户要求, 只检测指定的样品(部位)。/ As specified by client, only test the designated sample.

SVHC 中的物质清单见后续页。/ Substances in candidate list of SVHC please refer to following page(s).

备注/ Note:

1.以上物质的结果值是基于最坏的情况鉴定, 建议做进一步的调查确定样品中是否含有相关物质。/ As the Result of above substance that identified is based on the worst case scenario. Further investigation is required for confirmation of the presence of the substance in the sample.

2.其报告限是针对其代表性物质之评估。/ The reporting limit is evaluated based on the representative substances.

样品描述/ Sample Description:

| 序号 No. | HCT 样品 ID HCT Sample ID | 检测点描述 Test Part Description | |
|-----------|----------------------------|--------------------------------|-------------------------------------|
| 1 | WTH23H02016725C~6744C.5 | 5 | 棕色印黑色本体 Brown printed black body |



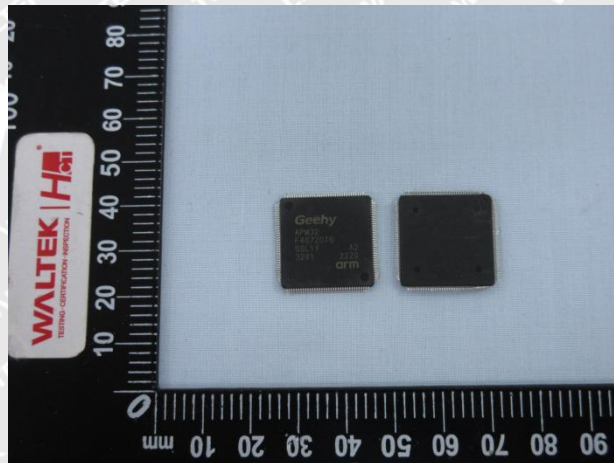


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检测流程图/ Test Flow Chart:



样品附图/ The photo of the sample



WTH23H02016725C~6744C.5





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所有检测的 SVHC 清单(Full list of tested SVHC):

第一批 15 种 SVHC (2008 年 10 月公布) (The first 15 SVHC(Announced in October, 2008))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|---|-------------------------|-----------|
| 1 | 蒽 Anthracene | 120-12-7 | 204-371-1 | 0.0100 |
| 2 | 4, 4'-二氨基二苯甲烷 4,4'- Diaminodiphenylmethane (MDA) | 101-77-9 | 202-974-4 | 0.0100 |
| 3 | 邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) | 84-74-2 | 201-557-4 | 0.0100 |
| 4 | 邻苯二甲酸二(2-乙基己基)酯 Bis (2-ethylhexyl)phthalate (DEHP) | 117-81-7 | 204-211-0 | 0.0100 |
| 5 | 邻苯二甲酸丁苄酯 Benzyl butyl phthalate (BBP) | 85-68-7 | 201-622-7 | 0.0100 |
| 6 | 三丁基氧化锡 Bis(tributyltin) oxide (TBTO) | 56-35-9 | 200-268-0 | 0.0100 |
| 7 | 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) | 81-15-2 | 201-329-4 | 0.0100 |
| 8 | 六溴环十二烷 Hexabromocyclododecane (HBCDD) (and all major diastereoisomers identified) | 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8) | 247-148-4/ 221-695-9 | 0.0100 |
| 9 | 短链氯化石蜡 Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) | 85535-84-8 | 287-476-5 | 0.0100 |
| 10* | 砷酸氢铅* Lead hydrogen arsenate* | 7784-40-9 | 232-064-2 | 0.0100 |
| 11* | 三乙基砷酸酯* Triethyl arsenate* | 15606-95-8 | 427-700-2 | 0.0100 |
| 12* | 五氧化二砷* Diarsenic pentaoxide* | 1303-28-2 | 215-116-9 | 0.0100 |
| 13* | 三氧化二砷* Diarsenic trioxide* | 1327-53-3 | 215-481-4 | 0.0100 |
| 14* | 二氯化钴* Cobalt dichloride* | 7646-79-9 | 231-589-4 | 0.0100 |
| 15* | 重铬酸钠* Sodium dichromate* | 7789-12-0, 10588-01-9 | 234-190-3 | 0.0100 |



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第二批 13 种 SVHC (2010 年 1 月和 3 月公布) (The second 13 SVHC(Announced in January and March, 2010))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|----------------|-----------|
| 16 | ^① 蒽油 ^① Anthracene oil | 90640-80-5 | 292-602-7 | 0.0100 |
| 17 | ^① 蒽油, 蒽糊, 轻油**** ^① Anthracene oil, anthracene paste, distn. lights**** | 91995-17-4 | 295-278-5 | 0.0100 |
| 18 | ^① 蒽油, 蒽糊, 蒽馏分 ^① Anthracene oil, anthracene paste, anthracene fraction | 91995-15-2 | 295-275-9 | 0.0100 |
| 19 | ^① 蒽油, 含蒽量少 ^① Anthracene oil, anthracene-low | 90640-82-7 | 292-604-8 | 0.0100 |
| 20 | ^① 蒽油, 蒽糊 ^① Anthracene oil, anthracene paste | 90640-81-6 | 292-603-2 | 0.0100 |
| 21 | 邻苯二甲酸二异丁酯 Diisobutyl phthalate | 84-69-5 | 201-553-2 | 0.0100 |
| 22 | 2,4-二硝基甲苯 2,4-dinitrotoluene | 121-14-2 | 204-450-0 | 0.0100 |
| 23* | ^② 铬酸铅 ^② Lead chromate | 7758-97-6 | 231-846-0 | 0.0100 |
| 24* | ^② 钼铬红 (C.I.颜料红 104) *** ^② Lead chromate molybdate sulphate red (C.I. Pigment Red 104) *** | 12656-85-8 | 235-759-9 | 0.0100 |
| 25* | ^② 铅铬黄 (C.I.颜料黄 34) *** ^② Lead sulfochromate yellow (C.I. Pigment Yellow 34)*** | 1344-37-2 | 215-693-7 | 0.0100 |
| 26 | ^① 煤焦油沥青, 高温 ^① Pitch, coal tar, high-temp. | 65996-93-2 | 266-028-2 | 0.0100 |
| 27 | 磷酸三(2-氯乙基)酯 Tris(2- chloroethyl) phosphate | 115-96-8 | 204-118-5 | 0.0100 |
| 28 | 丙烯酰胺 Acrylamide | 79-06-1 | 201-173-7 | 0.0100 |



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第三批 8 种 SVHC (2010 年 6 月公布) (The third 8 SVHC(Announced in June, 2010))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|--------------------------------------|------------------------|-----------|
| 29 | 三氯乙烯 Trichloroethylene | 79-01-6 | 201-167-4 | 0.0100 |
| 30* | 硼酸* Boric acid* (EC No. 233-139-2 and EC No. 234-343-4)* | 10043-35-3/ 11113-50-1 | 233-139-2 234-343-4 | 0.0100 |
| 31* | 无水四硼酸钠* Disodium tetraborate, anhydrous* | 1330-43-4 12179-04-3 1303-96-4 | 215-540-4 | 0.0100 |
| 32* | 水合硼酸钠* Tetraboron disodium heptaoxide, hydrate* | 12267-73-1 | 235-541-3 | 0.0100 |
| 33* | 铬酸钠* Sodium chromate* | 7775-11-3 | 231-889-5 | 0.0100 |
| 34* | 铬酸钾* Potassium chromate* | 7789-00-6 | 232-140-5 | 0.0100 |
| 35* | 重铬酸铵* Ammonium dichromate* | 7789-09-5 | 232-143-1 | 0.0100 |
| 36* | 重铬酸钾* Potassium dichromate* | 7778-50-9 | 231-906-6 | 0.0100 |

第四批 8 种 SVHC (2010 年 12 月公布) (The fourth 8 SVHC(Announced in December,2010))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|-------------------------|------------------------|-----------|
| 37* | 三氧化铬* Chromium trioxide* | 1333-82-0 | 215-607-8 | 0.0100 |
| 38 | 2-甲氧基乙醇 2-methoxyethanol | 109-86-4 | 203-713-7 | 0.0100 |
| 39 | 2-乙氧基乙醇 2-ethoxyethanol | 110-80-5 | 203-804-1 | 0.0100 |
| 40* | 醋酸钴* Cobalt(II) diacetate* | 71-48-7 | 200-755-8 | 0.0100 |
| 41* | 碳酸钴* Cobalt(II) carbonate* | 513-79-1 | 208-169-4 | 0.0100 |
| 42* | 硝酸钴* Cobalt(II) dinitrate* | 10141-05-6 | 233-402-1 | 0.0100 |
| 43* | 硫酸钴* Cobalt(II) sulphate* | 10124-43-3 | 233-334-2 | 0.0100 |
| 44* | 三氧化铬及其低聚物产生的酸: * 铬酸 重铬酸 铬酸及重铬酸的低聚物 Acids generated from chromium trioxide* and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid | 7738-94-5 13530-68-2 | 231-801-5 236-881-5 | 0.0100 |





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第五批 7 种 SVHC (2011 年 6 月公布) (The fifth 7 SVHC(Announced in June, 2011))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------------|----------------|-----------|
| 45 | 乙二醇乙醚乙酸酯 2-ethoxyethyl acetate | 111-15-9 | 203-839-2 | 0.0100 |
| 46* | 铬酸锶*Strontium chromate* | 7789-06-2 | 232-142-6 | 0.0100 |
| 47 | ^① 邻苯二甲酸二(C7-11 支链与直链)烷基酯 (DHNUP) ^① 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters | 68515-42-4 | 271-084-6 | 0.0100 |
| 48 | 肼 Hydrazine | 7803-57-8 302- 01-2 | 206-114-9 | 0.0100 |
| 49 | 1-甲基-2-吡咯烷酮 1-Methyl-2-pyrrolidone (NMP) | 872-50-4 | 212-828-1 | 0.0100 |
| 50 | 1,2,3-三氯丙烷 1,2,3-trichloropropane | 96-18-4 | 202-486-1 | 0.0100 |
| 51 | ^① 邻苯二甲酸二 (C6-8 支链与直链)烷基酯, 富 C7 链 (DIHP) ^① 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich | 71888-89-6 | 276-158-1 | 0.0100 |

第六批 20 种 SVHC (2011 年 12 月公布) (The sixth 20 SVHC(Announced in December, 2011))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|--|------------------|----------------|-----------|
| 52* | ^② 硅酸铝耐火陶瓷纤维 ^② Aluminosilicate Refractory Ceramic Fibres | — | 650-017-00-8** | 0.0100 |
| 53* | ^② 氧化锆硅酸铝耐火陶瓷纤维 ^② Zirconia Aluminosilicate Refractory Ceramic Fibres | — | 650-017-00-8** | 0.0100 |
| 54* | 铬酸铬* Dichromium tris(chromate)* | 24613-89-6 | 246-356-2 | 0.0100 |
| 55* | 氢氧化铬酸锌钾* Potassium hydroxyoctaoxodizincatedichromate* | 11103-86-9 | 234-329-8 | 0.0100 |



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| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|----------------|-----------|
| 56* | 锌黄(C.I.颜料黄 36)** Pentazinc chromate octahydroxide*** | 49663-84-5 | 256-418-0 | 0.0100 |
| 57 | 甲醛苯胺共聚物 Formaldehyde, oligomeric reaction products with aniline | 25214-70-4 | 500-036-1 | 0.0100 |
| 58 | 邻苯二甲酸二甲氧乙酯 Bis(2-methoxyethyl) phthalate | 117-82-8 | 204-212-6 | 0.0100 |
| 59 | 邻氨基苯甲醚 2-Methoxyaniline, o-Anisidine | 90-04-0 | 201-963-1 | 0.0100 |
| 60 | 对特辛基苯酚 4-(1,1,3,3-tetramethylbutyl)phenol | 140-66-9 | 205-426-2 | 0.0100 |
| 61 | 1,2-二氯乙烷 1,2-dichloroethane | 107-06-2 | 203-458-1 | 0.0100 |
| 62 | 乙二醇二甲醚 Bis(2-methoxyethyl) ether | 111-96-6 | 203-924-4 | 0.0100 |
| 63* | 砷酸*Arsenic acid* | 7778-39-4 | 231-901-9 | 0.0100 |
| 64* | 砷酸钙*Calcium arsenate* | 7778-44-1 | 231-904-5 | 0.0100 |
| 65* | 砷酸铅*Trilead diarsenate* | 3687-31-8 | 222-979-5 | 0.0100 |
| 66 | N,N-二甲基乙酰胺 N,N-dimethylacetamide | 127-19-5 | 204-826-4 | 0.0100 |
| 67 | 酚酞 Phenolphthalein | 77-09-8 | 201-004-7 | 0.0100 |
| 68 | 4,4'-亚甲基双-2-氯苯胺 2,2'-dichloro-4,4'- methylenedianiline | 101-14-4 | 202-918-9 | 0.0100 |
| 69* | 叠氮化铅*Lead diazide, Lead azide* | 13424-46-9 | 236-542-1 | 0.0100 |
| 70* | 2,4,6-三硝基苯二酚铅*Lead styphnate* | 15245-44-0 | 239-290-0 | 0.0100 |
| 71* | 苦味酸铅*Lead dipicrate* | 6477-64-1 | 229-335-2 | 0.0100 |



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第七批 13 种 SVHC (2012 年 6 月公布) (The seventh 13 SVHC(Announced in June, 2012)) 单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|----------------|-----------|
| 72 | 三甘醇二甲醚 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) | 112-49-2 | 203-977-3 | 0.0100 |
| 73 | 1, 2-二甲氧基乙烷 1, 2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) | 110-71-4 | 203-794-9 | 0.0100 |
| 74* | 三氧化二硼*Diboron trioxide* | 1303-86-2 | 215-125-8 | 0.0100 |
| 75 | 甲酰胺 Formamide | 75-12-7 | 200-842-0 | 0.0100 |
| 76* | 甲磺酸铅(II)* Lead(II) bis(methanesulfonate)* | 17570-76-2 | 401-750-5 | 0.0100 |
| 77 | 异氰尿酸三缩水甘油酯 1,3,5-Tris(oxiran-2-ylmethyl)- 1,3,5-triazinane-2,4,6-trione (TGIC) | 2451-62-9 | 219-514-3 | 0.0100 |
| 78 | 替罗昔隆 β -TGIC 1,3,5-tris[(2S and 2R)-2,3- epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β- TGIC) | 59653-74-6 | 423-400-0 | 0.0100 |
| 79 | 4,4'-四甲基二氨二苯酮 4,4'- bis(dimethylamino)benzophenone (Michler's ketone) | 90-94-8 | 202-027-5 | 0.0100 |
| 80 | 4,4'-亚甲基双(N,N-二甲基苯胺) N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) | 101-61-1 | 202-959-2 | 0.0100 |
| 81 | 结晶紫 [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1- ylidene]dimethylammonium chloride (C.I. Basic Violet 3) (with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)) | 548-62-9 | 208-953-6 | 0.0100 |
| 82 | 碱性蓝 26 [4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien- 1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) (with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)) | 2580-56-5 | 219-943-6 | 0.0100 |
| 83 | 溶剂蓝 4 α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) (with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)) | 6786-83-0 | 229-851-8 | 0.0100 |
| 84 | α,α-二[(二甲氨基)苯基]-4-甲氨基苯甲醇 4,4'- bis(dimethylamino)-4''-(methylamino)trityl alcohol (with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)) | 561-41-1 | 209-218-2 | 0.0100 |



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第八批 54 种 SVHC (2012 年 12 月公布) (The eighth 54 SVHC(Announced in December, 2012)) 单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|--|---|---|-----------|
| 85 | 十溴二苯醚 Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE) | 1163-19-5 | 214-604-9 | 0.0100 |
| 86 | 全氟十三酸 Pentacosafuorotridecanoic acid | 72629-94-8 | 276-745-2 | 0.0100 |
| 87 | 全氟十二酸 Tricosafuorododecanoic acid | 307-55-1 | 206-203-2 | 0.0100 |
| 88 | 全氟十一烷酸 Henicosafuoroundecanoic acid | 2058-94-8 | 218-165-4 | 0.0100 |
| 89 | 全氟十四酸 Heptacosafuorotetradecanoic acid | 376-06-7 | 206-803-4 | 0.0100 |
| 90 | ^① 对特辛基苯酚乙氧基醚 ^① 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (covering well-defined substances and UVCB substances, polymers and homologues) | — | — | 0.0100 |
| 91 | ^① 4-壬基苯酚, 支链和直链 ^① 4-Nonylphenol, branched and linear (substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof) | — | — | 0.0100 |
| 92 | 偶氮二甲酰胺 Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) | 123-77-3 | 204-650-8 | 0.0100 |
| 93 | 六氢邻苯二甲酸酐、反式六氢邻苯二甲酸酐、 顺式六氢邻苯二甲酸酐 Cyclohexane-1,2-dicarboxylic anhydride (all possible combinations of the cis- and trans-isomers) | 85-42-7, 14166-21-3, 13149-00-3 | 201-604-9, 238-009-9, 236-086-3 | 0.0100 |
| 94 | 甲基六氢苯酐、4-甲基六氢苯酐、 甲基六氢化邻苯二甲酸酐、3-甲基 六氢苯二甲酯酐 Hexahydromethylphthalic anhydride (including cis- and trans- stereo isomeric forms and all possible combinations of the isomers) | 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9 | 247-094-1, 243-072-0, 256-356-4, 260-566-1 | 0.0100 |



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| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|--|------------------|----------------|-----------|
| 95 | 甲氧基乙酸 Methoxyacetic acid | 625-45-6 | 210-894-6 | 0.0100 |
| 96 | 支链和直链 1, 2-苯二羧二戊酯 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear | 84777-06-0 | 284-032-2 | 0.0100 |
| 97 | 邻苯二甲酸二异戊酯 Diisopentyl phthalate | 605-50-5 | 210-088-4 | 0.0100 |
| 98 | 邻苯二甲酸正戊基异戊基酯 n-pentyl-isopentyl phthalate | 776297-69-9 | — | 0.0100 |
| 99 | 乙二醇二乙醚 1,2-diethoxyethane | 629-14-1 | 211-076-1 | 0.0100 |
| 100 | N,N-二甲基甲酰胺 N,N-dimethylformamide | 68-12-2 | 200-679-5 | 0.0100 |
| 101 | 二丁基氯化锡 Dibutyltin dichloride (DBTC) | 683-18-1 | 211-670-0 | 0.0100 |
| 102* | 碱式乙酸铅*Acetic acid, lead salt, basic* | 51404-69-4 | 257-175-3 | 0.0100 |
| 103* | 碱式碳酸铅*Trilead bis(carbonate) dihydroxide* | 1319-46-6 | 215-290-6 | 0.0100 |
| 104* | 碱式硫酸铅*Lead oxide sulfate* | 12036-76-9 | 234-853-7 | 0.0100 |
| 105* | [1,2-苯二羧酸根合]二氧化三铅* [Phthalato(2-)]dioxotrilead* | 69011-06-9 | 273-688-5 | 0.0100 |
| 106* | 双(十八酸基)二氧化三铅*Dioxobis(stearato)trilead* | 12578-12-0 | 235-702-8 | 0.0100 |
| 107* | C16-18-脂肪酸铅盐*Fatty acids, C16-18, lead salts* | 91031-62-8 | 292-966-7 | 0.0100 |
| 108* | 四氟硼酸铅*Lead bis(tetrafluoroborate)* | 13814-96-5 | 237-486-0 | 0.0100 |
| 109* | 氨基氰铅盐*Lead cyanamidate* | 20837-86-9 | 244-073-9 | 0.0100 |
| 110* | 硝酸铅*Lead dinitrate* | 10099-74-8 | 233-245-9 | 0.0100 |
| 111* | 氧化铅*Lead monoxide (lead oxide)* | 1317-36-8 | 215-267-0 | 0.0100 |
| 112* | 四氧化三铅, 铅丹*Orange lead (lead tetroxide)* | 1314-41-6 | 215-235-6 | 0.0100 |
| 113* | 钛酸铅*Lead titanium trioxide* | 12060-00-3 | 235-038-9 | 0.0100 |
| 114* | 钛酸铅锆*Lead titanium zirconium oxide* | 12626-81-2 | 235-727-4 | 0.0100 |
| 115* | ②氧化铅与硫酸铅的复合物*Pentalead tetraoxide sulphate* | 12065-90-6 | 235-067-7 | 0.0100 |
| 116* | ②颜料黄 41***Pyrochlore, antimony lead yellow*** | 8012-00-8 | 232-382-1 | 0.0100 |
| 117* | ②铅掺杂的硅钡酸盐* ②Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped* | 68784-75-8 | 272-271-5 | 0.0100 |
| 118* | 硅酸铅*Silicic acid, lead salt* | 11120-22-2 | 234-363-3 | 0.0100 |
| 119* | 亚硫酸铅(II)*Sulfurous acid, lead salt, dibasic* | 62229-08-7 | 263-467-1 | 0.0100 |
| 120* | 四乙基铅*Tetraethyllead* | 78-00-2 | 201-075-4 | 0.0100 |
| 121* | 三碱式硫酸铅*Tetralead trioxide sulphate* | 12202-17-4 | 235-380-9 | 0.0100 |
| 122* | 磷酸氧化铅*Trilead dioxide phosphonate* | 12141-20-7 | 235-252-2 | 0.0100 |
| 123 | 呋喃 Furan | 110-00-9 | 203-727-3 | 0.0100 |
| 124 | 环氧丙烷 Methyloxirane (Propylene oxide) | 75-56-9 | 200-879-2 | 0.0100 |
| 125 | 硫酸二乙酯 Diethyl sulphate | 64-67-5 | 200-589-6 | 0.0100 |



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| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|----------------|-----------|
| 126 | 硫酸二甲酯 Dimethyl sulphate | 77-78-1 | 201-058-1 | 0.0100 |
| 127 | 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 (ZOLDINE MS-PLUS) | 143860-04-2 | 421-150-7 | 0.0100 |
| 128 | 地乐酚 (二硝丁酚) Dinoseb (6-sec-butyl-2,4-dinitrophenol) | 88-85-7 | 201-861-7 | 0.0100 |
| 129 | 4,4'-二氨基-3,3'-二甲基二苯甲烷 4,4'-methylenedi-o-toluidine | 838-88-0 | 212-658-8 | 0.0100 |
| 130 | 4,4'-二氨基二苯醚 4,4'-oxydianiline and its salts | 101-80-4 | 202-977-0 | 0.0100 |
| 131 | 4-氨基偶氮苯 4-aminoazobenzene | 60-09-3 | 200-453-6 | 0.0100 |
| 132 | 2,4-二氨基甲苯 4-methyl-m-phenylenediamine (toluene-2,4-diamine) | 95-80-7 | 202-453-1 | 0.0100 |
| 133 | 2-甲氧基-5-甲基苯胺 6-methoxy-m-toluidine (p-cresidine) | 120-71-8 | 204-419-1 | 0.0100 |
| 134 | 4-氨基联苯 Biphenyl-4-ylamine | 92-67-1 | 202-177-1 | 0.0100 |
| 135 | 邻氨基偶氮甲苯 o-aminoazotoluene | 97-56-3 | 202-591-2 | 0.0100 |
| 136 | 邻甲基苯胺 o-toluidine | 95-53-4 | 202-429-0 | 0.0100 |
| 137 | N-甲基乙酰胺 N-methylacetamide | 79-16-3 | 201-182-6 | 0.0100 |
| 138 | 溴代正丙烷 1-bromopropane (n-propyl bromide) | 106-94-5 | 203-445-0 | 0.0100 |

第九批 6 种 SVHC (2013 年 6 月公布) (The ninth 6 SVHC(Announced in June, 2013))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|----------------|-----------|
| 139* | 镉 Cadmium | 7440-43-9 | 231-152-8 | 0.0100 |
| 140* | 氧化镉*Cadmium oxide* | 1306-19-0 | 215-146-2 | 0.0100 |
| 141 | 十五代氟辛酸铵盐 Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 | 223-320-4 | 0.0100 |
| 142 | 全氟辛酸 Pentadecafluorooctanoic acid (PFOA) | 335-67-1 | 206-397-9 | 0.0100 |
| 143 | 邻苯二甲酸二正戊酯 Dipentyl phthalate (DPP) | 131-18-0 | 205-017-9 | 0.0100 |
| 144 | ④4-壬基酚, 支链和直链, 乙氧基[由一含 9 个碳的直链和/或支链烷基链, 在碳 4 的位置共价有苯酚、乙氧基覆盖的非线性结构和明确的物质, 包括任何单一的同分异构体和/或其合] ④4-Nonylphenol, branched and linear, ethoxylated (substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof) | — | — | 0.0100 |



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第十批 7 种 SVHC (2013 年 12 月公布) (The tenth 7 SVHC(Announced in December, 2013)) 单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|----------------|-----------|
| 145* | 硫化镉*Cadmium sulphide* | 1306-23-6 | 215-147-8 | 0.0100 |
| 146 | 邻苯二甲酸二己酯 Dihexyl phthalate | 84-75-3 | 201-559-5 | 0.0100 |
| 147 | ②C.I.直接红 28 ②Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)] bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) | 573-58-0 | 209-358-4 | 0.0100 |
| 148 | ②C.I.直接黑 38 ②Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38) | 1937-37-7 | 217-710-3 | 0.0100 |
| 149 | 亚乙基硫脲 Imidazolidine-2-thione (2-imidazoline-2-thiol) | 96-45-7 | 202-506-9 | 0.0100 |
| 150* | 醋酸铅*Lead di(acetate)* | 301-04-2 | 206-104-4 | 0.0100 |
| 151 | 磷酸三(二甲苯)酯 Trixylyl phosphate | 25155-23-1 | 246-677-8 | 0.0100 |

第十一批 4 种 SVHC (2014 年 6 月公布) (The eleventh 4 SVHC(Announced in June, 2014)) 单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|-------------------------|-----------|
| 152 | 邻苯二甲酸二己酯(直链与支链) 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | 68515-50-4 | 271-093-5 | 0.0100 |
| 153* | 氯化镉*Cadmium chloride* | 10108-64-2 | 233-296-7 | 0.0100 |
| 154* | 水合高硼酸钠盐类 Sodium perborate, perboric acid, sodium salt* | — | 239-172-9, 234-390-0 | 0.0100 |
| 155* | 过硼酸钠*Sodium peroxometaborate* | 7632-04-4 | 231-556-4 | 0.0100 |



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第十二批 6 种 SVHC (2014 年 12 月公布) (The twelfth 6 SVHC(Announced in December, 2014)) 单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|--|---------------------------|----------------|-----------|
| 156 | 2-(2'-羟基-3',5'-二叔戊基苯基)苯并三唑 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 25973-55-1 | 247-384-8 | 0.0100 |
| 157 | 2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) | 3846-71-7 | 223-346-6 | 0.0100 |
| 158* | 氟化镉*Cadmium fluoride* | 7790-79-6 | 232-222-0 | 0.0100 |
| 159* | 硫酸镉*Cadmium sulphate* | 10124-36-4; 31119-53-6 | 233-331-6 | 0.0100 |
| 160 | 二正辛基-双(巯乙酸 2-乙基己酯)锡 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) | 15571-58-1 | 239-622-4 | 0.0100 |
| 161 | 二正辛基-双(巯乙酸 2-乙基己酯) (DOTE) 和三 (2-乙基己基巯基乙酸) 辛锡 (MOTE) 反应物料 Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) | — | — | 0.0100 |

第十三批 2 种 SVHC (2015 年 6 月公布) (The thirteenth 2 SVHC(Announced in June, 2015)) 单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|--|--------------------------|------------------------|-----------|
| 162 | 1,2-苯二羧酸, 二-碳6-10-烷基酯1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters (with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)) | 68515-51-5 68648-93-1 | 271-094-0 272-013-1 | 0.0100 |
| 163 | 5-仲丁基-丁基-2-(2,4-二甲基环己胺-3-乙二胺-1-基)-5-甲基-1,3-二氧乙烷 [1], 5-仲丁基-丁基-2-(4,6-二甲基环己胺-3-乙二胺-1-基)-5-甲基-1,3-二氧乙烷[2] (这两种物质的异构体以及它们的混合物) 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) | — | — | 0.0100 |



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第十四批 5 种 SVHC (2015 年 12 月公布) (The fourteenth 5 SVHC(Announced in December, 2015))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|-------------------------------------|----------------|-----------|
| 164 | 硝基苯 Nitrobenzene | 98-95-3 | 202-716-0 | 0.0100 |
| 165 | 2,4-二-叔丁基-6-(5-氯-2H-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 | 223-383-8 | 0.0100 |
| 166 | 2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑(UV-350) 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) | 36437-37-3 | 253-037-1 | 0.0100 |
| 167 | 1,3-丙烷磺内酯 1,3-propanesultone | 1120-71-4 | 214-317-9 | 0.0100 |
| 168 | 全氟壬酸及盐(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-十七氟壬酸和其钠和铵盐) Perfluorononan-1-oic-acid and its sodium and ammonium salts | 375-95-1 21049-39-8 4149-60-4 | 206-801-3 | 0.0100 |

第十五批 1 种 SVHC (2016 年 6 月公布) (The fifteenth 1 SVHC(Announced in June, 2016))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|----------------|-----------|
| 169 | 苯并芘 Benzo[def]chrysene (Benzo[a]pyrene) | 50-32-8 | 200-028-5 | 0.0100 |





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第十六批 4 种 SVHC (2017 年 1 月公布) (The sixteenth 4 SVHC(Announced in January, 2017))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------------------|------------------------------|-----------|
| 170 | 2,2-双(4-羟基苯基)丙烷 (双酚A) 4,4'-isopropylidenediphenol(Bisphenol A; BPA) | 80-05-7 | 201-245-8 | 0.0100 |
| 171 | 支链与直链的4-庚基苯酚 (4-HPbl) 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) | — | — | 0.0100 |
| 172 | 全氟癸酸 (PFDA) 及其钠盐和铵盐 Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts | 3108-42-7 335-76-2 3830-45-3 | -- 206-400-3 221-470-5 | 0.0100 |
| 173 | 对-(1,1-二甲基丙基)酚 (对叔戊基苯酚) (PTAP) p-(1,1-dimethylpropyl)phenol | 80-46-6 | 201-280-9 | 0.0100 |

第十七批 1 种 SVHC (2017 年 7 月公布) (The seventeenth 1 SVHC(Announced in July, 2017))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|----------------|-----------|
| 174 | 全氟己基磺酸及其盐类 Perfluorohexane-1-sulphonic acid and its salts (PFHxS) | — | — | 0.0100 |





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第十八批 7 种 SVHC (2018 年 1 月公布) (The eighteenth 7 SVHC(Announced in January, 2018)) 单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|--|---------------------------|----------------|-----------|
| 175 | 德克隆[包括所有反式和顺式异构体及其组合] 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octad eca-7,15-diene ("Dechlorane Plus"™) (covering any of its individual anti- and syn-isomers or any combination thereof) | — | — | 0.0100 |
| 176 | 苯并[a]蒽 Benz[a]anthracene | 56-55-3, 1718- 53-2 | 200-280-6 | 0.0100 |
| 177* | 硝酸镉*Cadmium nitrate* | 10022-68-1, 10325-94-7 | 233-710-6 | 0.0100 |
| 178* | 碳酸镉*Cadmium carbonate* | 513-78-0 | 208-168-9 | 0.0100 |
| 179* | 氢氧化镉*Cadmium hydroxide* | 21041-95-2 | 244-168-5 | 0.0100 |
| 180 | 蒽 Chrysene | 218-01-9, 1719- 03-5 | 205-923-4 | 0.0100 |
| 181 | ①1,3,4-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] ①Reaction 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 (4-HPbl)) | — | — | 0.0100 |





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第十九批 10 种 SVHC (2018 年 6 月公布) (The nineteenth 10 SVHC(Announced in June, 2018)) 单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|----------------|-----------|
| 182 | 苯-1,2,4-三羧酸 1,2-酐 (偏苯三酸酐) (TMA) Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (trimellitic anhydride; TMA) | 552-30-7 | 209-008-0 | 0.0100 |
| 183 | 苯并[GHI]芘 Benzo[ghi]perylene | 191-24-2 | 205-883-8 | 0.0100 |
| 184 | 十甲基环五硅氧烷 (D5) Decamethylcyclopentasiloxane (D5) | 541-02-6 | 208-764-9 | 0.0100 |
| 185 | 邻苯二甲酸二环己酯(DCHP) Dicyclohexyl phthalate (DCHP) | 84-61-7 | 201-545-9 | 0.0100 |
| 186* | 氧化硼钠*Disodium octaborate* | 12008-41-2 | 234-541-0 | 0.0100 |
| 187 | 十二甲基环六硅氧烷 (D6) Dodecamethylcyclohexasiloxane (D6) | 540-97-6 | 208-762-8 | 0.0100 |
| 188 | 乙二胺 Ethylenediamine (EDA) | 107-15-3 | 203-468-6 | 0.0100 |
| 189* | 铅 Lead | 7439-92-1 | 231-100-4 | 0.0100 |
| 190 | 八甲基环四硅氧烷 (D4) Octamethylcyclotetrasiloxane (D4) | 556-67-2 | 209-136-7 | 0.0100 |
| 191 | 氢化三联苯 Terphenyl, hydrogenated | 61788-32-7 | 262-967-7 | 0.0100 |

第二十批 6 种 SVHC (2019 年 1 月公布) (The twentieth 6 SVHC(Announced in January, 2019)) 单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|-------------------------|----------------|-----------|
| 192 | 1,7,7-三甲基-3-(苯亚甲基)双环[2,2,1]庚-2-酮(3-亚苄基樟脑) 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one(3-benzylidene camphor; 3-BC) | 15087-24-8 | 239-139-9 | 0.0100 |
| 193 | 4,4'-(1,3-二甲基丁基)二苯酚 2,2-bis(4'-hydroxyphenyl)-4-methylpentane(AP-5) | 6807-17-6 | 401-720-1 | 0.0100 |
| 194 | 苯并(k)荧蒹 Benzo[k]fluoranthene | 207-08-9 | 205-916-6 | 0.0100 |
| 195 | 荧蒹 Fluoranthene | 206-44-0, 93951-69-0 | 205-912-4 | 0.0100 |
| 196 | 菲 Phenanthrene | 85-01-8 | 201-581-5 | 0.0100 |
| 197 | 芘 Pyrene | 129-00-0, 1718-52-1 | 204-927-3 | 0.0100 |





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第二十一批 4 种 SVHC (2019 年 7 月公布) (The twenty-first 4 SVHC(Announced in July, 2019))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|----------------|-----------|
| 198 | 三(4-壬基苯基, 支链和直链)亚磷酸酯(TNPP), 含有≥0.1%w/w的4-壬基酚, 支链和直链(4-NP) Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) | — | — | 0.0100 |
| 199 | 4-叔丁基苯酚(PTBP) 4-tert-butylphenol | 98-54-4 | 202-679-0 | 0.0100 |
| 200 | 2-甲氧基乙酸乙酯 2-methoxyethyl acetate | 110-49-6 | 203-772-9 | 0.0100 |
| 201 | 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) 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof | — | — | 0.0100 |

第二十二批 4 种 SVHC (2020 年 1 月公布) (The twenty-second 4 SVHC(Announced in January, 2020))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|----------------|-----------|
| 202 | 2-苄基-2-二甲氨基-1-(4-吗啉苯基)丁酮 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone (CG 25-369; IRGACURE 369; TK 11-319) | 119313-12-1 | 404-360-3 | 0.0100 |
| 203 | 2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮 (光引发剂 907) 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one(ACETOCURE 97; GENOCURE*PMP; IGM 4817; IRGACURE 907; SPEEDCURE 97) | 71868-10-5 | 400-600-6 | 0.0100 |
| 204 | 邻苯二甲酸二异己酯 Diisohexyl phthalate | 71850-09-4 | 276-090-2 | 0.0100 |
| 205 | 全氟丁烷磺酸及其盐 Perfluorobutane sulfonic acid (PFBS) and its salts | — | — | 0.0100 |





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第二十三批 4 种 SVHC (2020 年 6 月公布) (The twenty-third 4 SVHC(Announced in June , 2020))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|----------------|-----------|
| 206 | 1-乙烯基咪唑 1-vinylimidazole | 1072-63-5 | 214-012-0 | 0.0100 |
| 207 | 2-甲基咪唑 2-methylimidazole | 693-98-1 | 211-765-7 | 0.0100 |
| 208 | 4-羟基苯甲酸丁酯 Butyl 4-hydroxybenzoate | 94-26-8 | 202-318-7 | 0.0100 |
| 209 | 双乙酰丙酮基二丁基锡Dibutylbis(pentane-2,4-dionato-O,O')tin | 22673-19-4 | 245-152-0 | 0.0100 |

第二十四批 2 种 SVHC (2021 年 1 月公布) (The twenty-fourth 2 SVHC(Announced in January , 2021))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|--|------------------|----------------|-----------|
| 210 | 四乙二醇二甲醚 Bis(2-(2-methoxyethoxy)ethyl)ether | 143-24-8 | 205-594-7 | 0.0100 |
| 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是脂肪酰氧基部分的主要碳原子数。 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 | — | — | 0.0100 |

第二十五批 8 种 SVHC (2021 年 7 月公布) (The twenty-fifth 8 SVHC(Announced in July , 2021))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|---|-------------------------------------|-----------|
| 212 | 1,4-二噁烷 1,4-dioxane | 123-91-1 | 204-661-8 | 0.0100 |
| 213 | 2,2-双(溴甲基)-1,3-丙二醇 (BMP) 三溴新戊醇/3-溴-2,2-二溴乙基丙醇(TBNPA) 2,3-二溴-1-丙醇(2,3-DBPA) 2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA) | 3296-90-0 36483-57-5 1522-92-5 96-13-9 | 221-967-7 253-057-0 202-480-9 | 0.0100 |
| 214 | 2-(4-叔丁基苄基)丙醛及其立体异构体 2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers | — | — | 0.0100 |
| 215 | 4,4'-(1-甲基亚丙基)双酚;(双酚B) 4,4'-(1-methylpropylidene)bisphenol | 77-40-7 | 201-025-1 | 0.0100 |
| 216 | 戊二醛 glutaral | 111-30-8 | 203-856-5 | 0.0100 |





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| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|----------------|-----------|
| 217 | 中链氯化石蜡 (MCCP) (UVCB物质, 由≥80%的直链氯代烷烃组成, 碳链长度在 C14到C17之间) 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 | — | — | 0.0100 |
| 218* | 硼酸钠* orthoboric acid, sodium salt* | 13840-56-7 | 237-560-2 | 0.0100 |
| 219 | 烷基酚, 碳链(C12为主, 直链或支链)主要在对位的烷基 酚物质及其任何单个异构体或组合(PDDP) Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) | — | — | 0.0100 |

第二十六批 4 种 SVHC (2022 年 1 月公布) (The twenty-sixth 4 SVHC(Announced in January, 2022))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|--|------------------|----------------|-----------|
| 220 | (±)-1,7,7-三甲基-3-[(4-甲基苯基)亚甲基]双环 [2.2.1]庚烷-2-酮, 涵盖任何单个异构体和/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 (4-MBC) | — | — | 0.0100 |
| 221 | 6,6'-二叔丁基-2,2'-亚甲基二对甲酚 (DBMC) 6,6'-di-tert- butyl-2,2'-methylenedi-p-cresol | 119-47-1 | 204-327-1 | 0.0100 |
| 222 | S-(三环[5.2.1.0' ² ,6]癸-3-烯-8(或9)-基) O-(异丙基或异丁基 或2-乙基己基) O-(异丙基或异丁基或2-乙基己基)二硫代磷 酸酯S-(tricyclo(5.2.1.0' ² ,6)deca-3-en-8(or 9)-yl O- (isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate | 255881-94-8 | 401-850-9 | 0.0100 |
| 223 | 三(2-甲氧基乙氧基)乙烯基硅烷tris(2- methoxyethoxy)vinylsilane | 1067-53-4 | 213-934-0 | 0.0100 |



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第二十七批 1 种 SVHC (2022 年 6 月公布) (The twenty-seventh 1 SVHC(Announced in June, 2022))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|---|------------------|----------------|-----------|
| 224 | N-(羟甲基)丙烯酰胺 N-(hydroxymethyl)acrylamide | 924-42-5 | 213-103-2 | 0.0100 |

第二十八批 9 种 SVHC (2023 年 1 月公布) (The twenty-eighth 9 SVHC(Announced in January, 2023))

单位(Unit): %

| 序号 No. | 物质名称 Substance Name(s) | CAS 号 CAS No. | EC 号 EC No. | 报告限 RL |
|-----------|--|------------------|----------------|-----------|
| 225 | 1,2-双(2,4,6-三溴苯氧基)乙烷1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene] | 37853-59-1 | 253-692-3 | 0.0100 |
| 226 | 四溴双酚A 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol | 79-94-7 | 201-236-9 | 0.0100 |
| 227 | 4,4'-磺酰二苯酚 (双酚S) 4,4'-sulphonyldiphenol | 80-09-1 | 201-250-5 | 0.0100 |
| 228* | 偏硼酸钡* Barium diboron tetraoxide* | 13701-59-2 | 237-222-4 | 0.0100 |
| 229 | 四溴邻苯二甲酸双(2-乙基己基)酯, 包括任何单个异构体和/或其组合 Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof | — | — | 0.0100 |
| 230 | 4-羟基苯甲酸异丁酯 Isobutyl 4-hydroxybenzoate | 4247-02-3 | 224-208-8 | 0.0100 |
| 231 | 三聚氰胺 Melamine | 108-78-1 | 203-615-4 | 0.0100 |
| 232 | 全氟庚酸及其盐 Perfluoroheptanoic acid and its salts | — | — | 0.0100 |
| 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-4-(七氟丙基)吗啉的反应物 reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine | — | 473-390-7 | 0.0100 |



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注释(Note):

-0.1%=1000mg/kg

-mg/kg (milligram per kilogram 毫克每千克) = ppm (parts per million 百万分之)

-*: 无机 SVHC 的化合物通过检测钴、氯、钠、砷、铬、钾、铅、硼、锆、钛、锡、磷、钙、锌、锶、钼、铝、镉、钡元素的结果换算而来,并用适当溶剂萃取进行确认,同时建议客户检查化学配方表,进一步确认是否含有上述物质。

Inorganic SVHC compounds are obtained by converting the test results of cobalt, chloride, sodium, arsenic, chromium, potassium, lead, boron, zirconium, titanium, tin, phosphorus, calcium, zinc, strontium, molybdenum, aluminum and cadmium, barium elements, and confirmed through the appropriate solvent extraction. At the same time, customers are suggested to check the chemical formula table, to further confirm whether above materials are contained.

-**: 在化学物质及其混合物的分类,标记与包装法规,即 CLP 法规(法规(EC) No 1272/2008)的附录 VI 中,索引号 650-017-00-8 适用于所有的耐火陶瓷纤维材料。

All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation(EC) No 1272/2008).

-***: C.I.: 颜料索引号, C.I.:Colour Index

-****: 蒸馏所分离出来的轻油部分, Light fractions from distillation

-①: 由于这些物质是 UVCB 物质(未知成分或可变成成分的,复杂反应物或生物材料的物质),由各种不同的成分组成,所有这些物质的检测结果是由选定的具有代表性的物质的主要组成成分的检测结果换算而来的。

In view of the substances are established as UVCB substances(substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

-②: 由于此物质含有多种物质,检测结果是基于此物质中最具有代表性的主要组成化合物的含量,其主要组成化合物的检测结果是基于特定的元素的结果换算而来。

In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.





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附加信息(Appendix):

(1)本报告所涉及的关于特定高关注物质的化学分析是根据欧洲化学品管理署发布的下列文件,利用现有的分析技术完成的。The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:

<http://echa.europa.eu/web/guest/candidate-list-table>

这些文件清单由欧洲化学品管理署评估,将来可能会有变化。

These lists are under evaluation by ECHA and may subject to change in the future.

(2) 关于物品(Concerning article(s)):

根据欧盟第 1907/2006 (EC) 号法规,如果满足以下两个条件,如果物质符合第 57 条中的标准并根据第 59 条第一款被确定,物品的任何欧洲制造商或进口商应根据第 7 条第 4 款向欧盟化学品管理署 进行通报:(a) 候选清单中的物质在物品中的总含量超过 1 吨/年/生产商或进口商;(b) 候选清单中的 物质在物品中的总含量以质量分数计超过 0.1% 的浓度。In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

欧盟第 1907/2006 (EC) 号法规第 33 条规定,含有满足第 57 条中的标准并根据第 59 条第一款被确定且质量分数大于 0.1% 的物质的物品的所有供应商应向物品接受者提供其可获取的充足信息,以使 物品使用安全,这些信息至少包括含有的候选清单中物质的名称。Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

(3) 关于材料(Concerning material(s)):

报告中的测试结果是基于测试样品。如样品是均一材质,当其构成成品时,此结果不能代表成品中的 SVHC 浓度。如样品为均一材质等比例合测,这些材质也可能来自不同的物品。Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

如果样品是一种物质或混合物,并且直接出口到欧盟,客户有责任遵守欧盟第 1907/2006 号 REACH 法规第 31 条供应链信息传递的义务和附件十四中的授权高关注物质授权的责任。If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

(4) 关于物质和配制品(Concerning substance and preparation):

如果样品中高关注物质的浓度超过 0.1% (w/w)和/或欧盟第 1272/2008 号 CLP 法规和欧盟委员会条例 第 790/2009 号中设定的特殊浓度限值,建议客户根据欧盟第 1907/2006 号 REACH 法规对有关高关注物质准备安全数据表(SDS)以符合供应链传递信息的义务,如: If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet





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(SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- 根据欧盟第 1272/2008 号 CLP 法规被列为有害物质。
- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- 根据危险混合物指令 1999/45/EC 或欧盟第 1272/2008 号 CLP 法规被列为危险混合物，而其浓度大于或等于危险混合物指令 1999/45/EC 第 3 条(3)中规定的限制数值或欧盟第 1272/2008 号 CLP 法规 附件六第 3 部分列出的较低值;或-a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008;
- or
- 根据危险混合物指令 1999/45/EC 并未列为危险混合物，但包含：
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
 - (a) 对人类健康或环境有害的物质，而在固体或液体混合物（即非气体混合物）中其浓度 $\geq 1\%$ (w/w) 或在气体混合物中占体积 $\geq 0.2\%$ ，或
a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
 - (b) PBT 或 vPvB 物质，在固体或液体混合物（即非气体混合物）中浓度 $\geq 0.1\%$ (w/w)，或
a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) 授权审议的高关注物质候选清单上的物质（除上述以外的原因）在非气体混合物中的浓度 $\geq 0.1\%$ (w/w)，或
a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
 - (d) 设有欧洲范围内工作场所接触限值的物质。
a substance for which there are Europe-wide workplace exposure limits.





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声明/ Statement:

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