

盛群禁限用管理物質標準
Holtek Banned and Restricted Substance List and its Threshold

一、目的

盛群半導體股份有限公司為因應國際法律規章及客戶要求，特制定此表代表本公司產品符合之環境相關物質與規格，以確保產品不含有傷害人體的有害物質。

A. Purpose

In order to comply with the international regulations for the banned and restricted substances and meet the customers' requirements, Holtek makes this substances list and defines the threshold of each item to ensure that our products can meet the standards in the international regulations and be free of the hazardous substances that may be harmful to humans.

二、盛群禁限用物質管制限值

B. Definition of Banned and Restricted Substances and their Threshold

Table 1.

No.	物質名稱 Substances	限制值 Threshold (ppm)
1	鎘及鎘化合物 Cadmium and cadmium compounds (Cd)	100ppm in Plastics
2	鉛及鉛化合物 Lead and lead compounds (Pb)	100ppm in Plastics 1000 ppm in Solders
3	汞及汞化合物 Mercury and mercury compounds(Hg)	1000ppm
4	六價鉻化合物 Hexavalent chromium compounds(Cr+6)	1000ppm
5	鎳及鎳化合物 Nickel and nickel compounds(Ni)	1000ppm
6	砷及砷化合物 Arsenic and arsenic compounds(As)	100ppm
7	鉍及鉍化合物 Bismuth and bismuth compounds(Bi)	1000ppm
8	銻及銻化合物 Antimony and antimony compounds(Sb)	1000ppm
9	多溴聯苯 (PBB) Polybrominated biphenyls	1000ppm
10	包含十溴聯苯醚(DecaBDE)多溴二苯醚(PBDE)	1000ppm
11	四溴丙二酚(TBBP-A) Tetrabromobisphenol-A	1000ppm
12	六溴環十二烷(HBCDD) Hexabromocyclododecane	1000ppm
13	其他有機溴化合物 Other brominated organic compounds	1000ppm
14	多氯聯苯(PCB) Polychlorinated biphenyls	Prohibited
15	多氯聯萘(PCN) Polychlorinated naphthalenes	Prohibited
16	聚氯三聯苯(PCT) Polychlorinated terphenyls	Prohibited
17	短鏈型氯代烷烴(SCCP) Short-chain chlorinated paraffins	Prohibited
18	氯化烷烴(氯化石蠟)(CP) Chlorinated Paraffins	1000ppm
19	聚氯乙烯(PVC)以及聚氯乙烯混合物 Polyvinyl chloride and PVC blends	Prohibited
20	其他有機氯化物 Other chlorinated organic compounds	1000ppm
21	三取代基有機錫化合物 (三丁基錫化合物、三苯基錫化合物) Trisubstituted organotin compounds (Triphenyl tin compounds(TPT) 、 Tributyl tin compounds(TBT))	Prohibited
22	石棉 Asbestos	Prohibited
23	特定偶氮化合物 Specific Azo compounds	Prohibited
24	甲醛 Formaldehyde	Prohibited
25	發泡聚苯乙烯 (EPS) Expanded Polystyrene	Prohibited
26	臭氧危害物質 (ODS) Ozone depleting substances	Prohibited
27	放射性物質 Radioactive substances	Prohibited
28	氧化鈹 Beryllium oxide	Prohibited
29	鈹及其化合物(Be) (鈹青銅 Beryllium copper)	To Be Observed
30	特定鄰苯二甲酸鹽 (DEHP、DBP、BBP、DINP、DIDP、DNOP、DNHP、Di-(2-methoxyethyl) phthalate、other phthalates)	1000ppm

No.	物質名稱 Substances	限制值 Threshold (ppm)
31	鄰苯二甲酸二異壬酯、鄰苯二甲酸二異癸酯、鄰苯二甲酸二正辛酯、鄰苯二甲酸二己酯、 Di-isononyl phthalate, Di-isodecyl phthalate, Di-n-octyl phthalate, Di-n-hexyl phthalate, 鄰苯二甲酸二 (C6-8支鏈) 烷基酯、富C7 (DIHP) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich, 鄰苯二甲酸二 (C7-11支鏈與直鏈) 烷基酯 (DHNUP) 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters, 鄰苯二甲酸二甲氧乙酯 (DMEP) Bis(2-methoxyethyl) phthalate 鄰苯二甲酸二異壬酯 (DIPP)、支鏈與直鏈的鄰苯二甲酸二戊酯、鄰苯二甲酸正戊基異戊基酯 Diisopentylphthalate、1,2-Benzenedicarboxylic acid, dipentylester, branched and linear、N-pentyl-isopentylphthalate	1000ppm
32	氫氟碳化合物 (HFC)、全氟化碳 (PFC)	Prohibited
33	硒及硒化合物 Selenium and selenium compounds (Se)	1000ppm
34	非特定溴係阻燃劑 (除PBB、PBDE類)	To Be Observed
35	Non-specific brominated flame-retardants (excluding PBB、PBDE)	
36	全氟辛烷硫磺酸(及其鹽)(PFOS) Perfluorooctane sulfonates	1000 ppm in parts 50 ppm in preparations
37	全氟辛烷酸 (PFOA)及其鹽類與脂類 Perfluorooctyl acid and individual salts and esters of PFOA	50ppm
38	特定苯並三氮唑 Specific benzotriazole	Prohibited
39	鹵化二苯基甲烷 Halogenated diphenyl methanes	Prohibited
40	雙酚A (Bisphenol-A ; BPA)	50ppm
41	氣味物質(二甲苯麝香及酮麝香) Fragrance substance (Musk xylene and Musk ketone)	500ppm
42	界面活性劑 (DTDMAC, DODMAC/DSDMAC and DHTDMAC)(Surfactants)	1000ppm
43	五氯酚 (PCP) Pentachlorophenol	1000ppm
44	三氯沙 Triclosan	10ppm
45	二氯化鈷 Cobalt dichloride	Prohibited
46	鹵素 (Halogen) 氯(Cl)、溴(Br)	Cl < 900ppm (0.09%) Br < 900ppm (0.09%) Cl+Br < 1500ppm (0.15%)
47	富馬酸二甲酯 (dimethylfumarate ; DMF)	0.1ppm
48	多環芳香烴化合物 (PAHs) Polycyclic Aromatic Hydrocarbons	Prohibited
49	二丁基錫化合物 (DBT) Dibutyltin compounds	Prohibited
50	二辛基錫化合物 (DOT) Dioctyltin compounds	Prohibited
51	二正辛基-雙 (2-乙基己基巰基乙酸酯) 錫 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	Prohibited
52	二正辛基-雙 (2-乙基己基巰基乙酸酯) 錫和單辛基-三(2-乙基己基巰基乙酸酯) 錫的反應物 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 DOTE and MOTE)	Prohibited
53	磷酸三硬脂精 (2-氯二乙硫醚)(TCEP)Tris(2-chloroethyl) phosphate	1000ppm
54	三氯化二砷、五氧化二砷Diarsenic trioxide, Diarsenic pentaoxide	1000ppm
55	硼酸、特定硼酸鈉Boric acid, specific sodium borates	To Be Observed

No.	物質名稱 Substances	限制值 Threshold (ppm)
56	4 - (1,1,3,3 - 四甲基丁基) 苯酚 4-(1,1,3,3-tetramethylbutyl) phenol	1000ppm
57	氬代雙 (2 - 甲氧基乙基) 醚 Bis(2-methoxyethyl) ether	1000ppm
58	N' · N-二甲基乙酰胺 (DMAC) N,N-dimethylacetamide	1000ppm
59	乙二醇二甲醚(EGDME) Ethylene glycol dimethyl ether	1000ppm
60	高氯酸鹽 Perchlorates	0.006ppm (6ppb)
61	磷酸三(二甲苯)酯 (TXP) Trixylyl phosphate	1000ppm
62	紅磷 Red Phosphorus	Prohibited
63	全氟己基磺酸及其鹽類(PFHxS)	1000ppm
64	德克隆(涵蓋各個反式及順式同分異構物或者相關組合) 1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene(Dechlorane Plus™)	1000ppm
65	鹵化阻燃劑(溴化及氯化阻燃劑除外) Halogenated flame retardants (other than brominated and chlorinated flame retardants)	1000ppm
66	長鏈(C9-C20)全氟羧酸(PFCAs)及其鹽類和相關物質 Long-chain(C9-C20) perfluorocarboxylic acids(PFCAs) and its salts and related substances	Intentionally added
67	全氟己酸(PFHxA)及其鹽類和相關物質 Perfluorohexanoic acid(PFHxA)and its salts and related substances	Intentionally added
68	十溴二苯乙烷(DBDPE)	Intentionally added
69	C9-C14 全氟羧酸及其鹽類和相關物質 Perfluorocarboxylic acids (PFCAs) C9-C14 and its salts and related substances	0.0000025 wt% (25 ppb) of PFCAs including its salts in article or mixture 0.000026 wt% (260 ppb) of one or a combination of PFCAs-related substances, in article or mixture
70	六氯苯Hexachlorobenzene (HCB)	Intentionally added or 0.001 wt% (10 ppm) in article or mixture
71	全氟多氟烷基物質Per/polyfluoroalkyl substances (PFAS)	Intentionally added
72	氯化酚Chlorinated phenols (PCP)	0.0005 wt% (5 ppm) in homogeneous material(except artificial leather)
73	TSCA Priority chemicals	Prohibited
74	包材類 Packaging Materials : 符合包裝及包裝廢棄物指令(94/62/EC)規定 Meet the requirement of 94/62/EC directive.	Cd+Pb+Hg+Cr ⁶⁺ <100ppm

Table 2.

◎ 產品內所含之高關注物質 SVHC in Holtek's product, <=1000ppm

No.	高關注物質名稱 Anticipated SVHC Substance	EC 號碼 EC No.
1	蒽 (Anthracene)	204-371-1
2	4,4'-二胺基二苯甲烷 (4,4' -Diaminodiphenylmethane)	202-974-4
3	二氯化鈷 Cobalt dichloride	231-589-4
4	五氧化二砷 Diarsenic pentaoxide	215-116-9
5	三氧化二砷 Diarsenic trioxide	215-481-4
6	重鉻酸鈉 Sodium dichromate	234-190-3
7	內二甲苯麝香 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4
8	鄰苯二甲酸二丁酯 (DBP) Dibutyl Phthalate (DBP)	201-557-4
9	鄰苯二甲酸二(2-乙基己基)酯 Bis (2-ethyl(hexyl)phthalate) (DEHP)	204-211-0
10	鄰苯二甲酸丁酯苯甲酯(BBP) Benzyl butyl phthalate (BBP)	201-622-7
11	六溴環十二烷 及其異構物 Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β -HBCDD, γ -HBCDD)	247-148-4 and 221-695-9
12	短鏈氯化石蠟 Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCPs)	287-476-5
13	氧化三丁錫 Bis(tributyltin) oxide (TBTO)	200-268-0
14	砷酸鉛 Lead hydrogen arsenate	232-064-2
15	三乙砷酸酯 Triethyl arsenate	427-700-2
16	二硝基甲苯 2,4-Dinitrotoluene	204-450-0
17	蒽油 Anthracene oil	292-602-7
18	蒽油、蒽糊、輕油 Anthracene oil, anthracene paste, distn. Lights	295-278-5
19	蒽油、蒽糊、蒽醌分離液 Anthracene oil, anthracene paste, anthracene fraction	295-275-9
20	蒽油、含蒽量少 Anthracene oil, anthracene-low	292-604-8
21	蒽油、蒽糊 Anthracene oil, anthracene paste	292-603-2
22	鄰苯二甲酸二異丁酯 Diisobutyl phthalate	201-553-2
23	矽酸鋁、陶瓷耐火纖維 Aluminosilicate, Refractory Ceramic Fibres	650-017-008-a
24	矽酸鋁氧化鋯、陶瓷耐火纖維 Zirconia Aluminosilicate, Refractory Ceramic Fibres	650-017-008-b
25	鉻酸鉛 Lead chromate	231-846-0
26	紅色鉬鉻酸鉛硫酸鹽 Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	235-759-9
27	黃色硫化鉻酸鉛 Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7
28	三(2-(氯乙基)磷酸酯) Tris(2-chloroethyl)phosphate	204-118-5
29	焦煤瀝青、高溫 Pitch, coal tar, high temperature	266-028-2
30	三氯乙烯 Trichloroethylene	201-167-4
31	硼酸 Boric acid	233-139-2 and 234-343-4
32	硼砂 Disodium tetraborate, anhydrous	215-540-4
33	水合硼酸鈉 Tetraboron disodium heptaoxide, hydrate	235-541-3
34	鉻酸鈉 Sodium chromate	231-889-5
35	鉻酸鉀 Potassium chromate	232-140-5

No.	高關注物質名稱 Anticipated SVHC Substance	EC 號碼 EC No.
36	重鉻酸銨 Ammonium dichromate	232-143-1
37	重鉻酸鉀 Potassium dichromate	231-906-6
38	丙烯醯胺 Acrylamide	201-173-7
39	硫酸鈷 (II) Cobalt(II) sulphate	233-334-2
40	硝酸鈷 (II) Cobalt(II) dinitrate	233-402-1
41	碳酸鈷 (II) Cobalt(II) carbonate	208-169-4
42	醋酸鈷 (II) Cobalt(II) diacetate	200-755-8
43	2-甲氧基乙醇 2-Methoxyethanol	203-713-7
44	2-乙氧基乙醇 2-Ethoxyethanol	203-804-1
45	三氧化鉻 Chromium trioxide	215-607-8
46	由三氧化鉻和其他低聚物形成的酸類:鉻酸/重鉻酸/鉻酸和重鉻酸的低聚物 Acids generated from chromium trioxide and their oligomers: Chromic acid/Dichromic acid/Oligomers of chromic acid and dichromic acid	231-801-5 and 236-881-5
47	乙二醇乙醚醋酸酯 2-Ethoxyethyl acetate	203-839-2
48	鉻酸銣 strontium chromate	232-142-6
49	鄰苯二甲酸二 (C7-11支鏈與直鏈) 烷基酯 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6
50	聯氨 Hydrazine	206-114-9
51	N-甲基吡咯烷酮 1-methyl-2-pyrrolidone	212-828-1
52	1,2,3-三氯丙烷 1,2,3-Trichloropropane	202-486-1
53	鄰苯二甲酸二 (C6-8支鏈與直鏈) 烷基酯 · 富C7 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1
54	鉻酸鉻 Dichromium tris(chromate)	246-356-2
55	氫氧化鉻酸鋅鉀 Potassium hydroxyoctaoxodizincatedi-chromate	234-329-8
56	C.I.顏料黃 36 Pentazinc chromate octahydroxide	256-418-0
57	矽酸鋁, 耐火陶瓷纖維 Aluminosilicate Refractory Ceramic Fibres (RCF)	650-017-00-8*
58	氧化鋯矽酸, 耐火陶瓷纖維 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	650-017-00-8*
59	甲醛和苯胺聚合物 Formaldehyde, oligomeric reaction products with aniline (technical MDA)	500-036-1
60	鄰苯二甲酸二甲氧乙酯 Bis(2-methoxyethyl) phthalate	204-212-6
61	鄰甲氧基苯胺 2-Methoxyaniline; o-Anisidine	201-963-1
62	對特辛基苯酚 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	205-426-2
63	1,2-二氯乙烷 1,2-Dichloroethane	203-458-1
64	二甘醇二甲醚 Bis(2-methoxyethyl) ether	203-924-4
65	砷酸 Arsenic acid	231-901-9
66	砷酸鈣 Calcium arsenate	231-904-5
67	砷酸鉛 Trilead diarsenate	222-979-5
68	N,N-二甲基乙醯胺 N,N-dimethylacetamide (DMAC)	204-826-4
69	4,4'-二氨基-3,3'-二氯二苯甲烷 2,2'-dichloro-4,4'-methylenedianiline (MOCA)	202-918-9
70	酚酞 Phenolphthalein	201-004-7

No.	高關注物質名稱 Anticipated SVHC Substance	EC 號碼 EC No.
71	疊氮化鉛Lead azide Lead diazide	236-542-1
72	收斂酸鉛Lead styphnate	239-290-0
73	苦味酸鉛Lead dipicrate	229-335-2
74	三乙二醇二甲醚1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3
75	乙二醇二甲醚1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9
76	三氧化二硼Diboron trioxide	215-125-8
77	甲醯胺Formamide	200-842-0
78	甲基磺酸鉛Lead(II) bis(methanesulfonate)	401-750-5
79	異氰尿酸三縮水甘油酯1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (TGIC)	219-514-3
80	β型異氰尿酸三縮水甘油酯1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-400-0
81	4,4'-二(N,N-二甲胺基)二苯甲酮4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5
82	4,4'-亞甲雙(N,N-二甲胺基)N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2
83	[(4-[[4-苯胺基-1-萘基][4-(二甲胺基)苯基]亞甲基]環己-2,5-二烯-1-亞基]二甲基氯化銨 (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) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	219-943-6
84	[4-[4,4'-雙(二甲胺基)二苯亞甲基]環己-2,5-二烯-1-亞基]二甲基氯化銨(C.I. 鹼性紫3)[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)]	208-953-6
85	(4,4'-雙(二甲胺基)-4'- (甲基胺基)三苯甲醇)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)]	209-218-2
86	α,α-雙[4-(二甲胺基)苯基]-4-(苯胺基)-1-萘甲醇 (C.I. 溶劑藍 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)]	229-851-8
87	十溴二苯醚 Bis(pentabromophenyl) ether (DecaBDE)	214-604-9
88	全氟十三酸 Pentacosfluorotridecanoic acid	276-745-2
89	全氟十二酸 Tricosfluorododecanoic acid	206-203-2
90	全氟十一酸 Henicosfluoroundecanoic acid	218-165-4
91	全氟十四酸 Heptacosfluorotetradecanoic acid	206-803-4
92	乙氧化4-(1,1,3,3-四甲基丁基)苯酚 涵蓋明確定義物質及UVCB物質、聚合物及同系物 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	-
93	支鏈和直鏈-4-壬基酚, 有烷基直鏈及/或支鏈以9個碳共價於酚的對位, 涵蓋所有由單一或多種異構物組合的明確定義物質及UVCB物質 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	-

No.	高關注物質名稱 Anticipated SVHC Substance	EC 號碼 EC No.
94	1,1'-偶氮雙甲醯胺 Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8
95	六氫鄰苯二甲酐 Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	201-604-9
96	甲基六氫鄰苯二甲酐, 4-甲基六氫鄰苯二甲酐, 1-甲基六氫鄰苯二甲酐, 3-甲基六氫鄰苯二甲酐 Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	247-094-1, 243-072-0, 256-356-4, 260-566-1
97	甲氧基乙酸 Methoxy acetic acid	210-894-6
98	支鏈和直鏈1,2-苯二甲酸二戊酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2
99	鄰苯二甲酸二異戊酯 Diisopentylphthalate (DIPP)	210-088-4
100	鄰苯二甲酸正戊基異戊基酯 N-pentyl-isopentylphthalate	-
101	乙二醇二乙醚 1,2-Diethoxyethane	211-076-1
102	二甲基甲醯胺 N,N-dimethylformamide; dimethyl formamide	200-679-5
103	二氯化二丁錫 Dibutyltin dichloride (DBT)	211-670-0
104	鹼式乙酸鉛 Acetic acid, lead salt, basic	257-175-3
105	鹼式碳酸鉛 Basic lead carbonate (trilead bis(carbonate)dihydroxide)	215-290-6
106	鹼式硫酸鉛 Lead oxide sulfate (basic lead sulfate)	234-853-7
107	二鹼式鄰苯二甲酸鉛 [Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	273-688-5
108	雙(十八酸基)二氧三鉛 Dioxobis(stearato)trilead	235-702-8
109	C16-18-脂肪酸鉛鹽 Fatty acids, C16-18, lead salts	292-966-7
110	二(四氟硼酸)鉛 Lead bis(tetrafluoroborate)	237-486-0
111	氰胺化鉛 Lead cyanamidate	244-073-9
112	硝酸鉛 Lead dinitrate	233-245-9
113	一氧化鉛 Lead oxide (lead monoxide)	215-267-0
114	四氧化三鉛(鉛丹) Lead tetroxide (orange lead)	215-235-6
115	鈦酸鉛(II) Lead titanium trioxide	235-038-9
116	鉛鈦鉛氧化物 Lead Titanium Zirconium Oxide	235-727-4
117	硫酸四氧化五鉛 Pentalead tetraoxide sulphate	235-067-7
118	燒綠石銻鉛黃 Pyrochlore, antimony lead yellow	232-382-1
119	摻雜鉛的矽酸鋇 Silicic acid, barium salt, lead-doped	272-271-5
120	矽酸鉛 Silicic acid, lead salt	234-363-3
121	亞硫酸鉛 Sulfurous acid, lead salt, dibasic	263-467-1
122	四乙基鉛 Tetraethyllead	201-075-4
123	三鹼式硫酸鉛 Tetralead trioxide sulphate	235-380-9
124	二鹼式亞磷酸鉛 Trilead dioxide phosphonate	235-252-2
125	呋喃 Furan	203-727-3
126	環氧丙烷 Propylene oxide; 1,2-epoxypropane; methyloxirane	200-879-2
127	硫酸二乙酯 Diethyl sulphate	200-589-6
128	硫酸二甲酯 Dimethyl sulphate	201-058-1
129	3-乙基-2-甲基-2-(3-甲丁基)-1,3-【口罌】啞 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7
130	達諾殺 Dinoseb	201-861-7
131	4,4'-亞甲二-鄰-甲苯胺 4,4'-methylenedi-o-toluidine	212-658-8
132	4,4'-氧二苯胺及其鹽類 4,4'-oxydianiline and its salts	202-977-0

No.	高關注物質名稱 Anticipated SVHC Substance	EC 號碼 EC No.
133	4-胺基偶氮苯 4-Aminoazobenzene; 4-Phenylazoaniline	200-453-6
134	4-甲基-間-苯二胺 (2,4-二胺基甲苯) 4-methyl-m-phenylenediamine (2,4-toluene-diamine)	202-453-1
135	6-甲氧基-間-甲苯胺 6-methoxy-m-toluidine (p-cresidine)	204-419-1
136	4-胺基聯苯 Biphenyl-4-ylamine	202-177-1
137	鄰-胺基偶氮甲苯 o-aminoazotoluene	202-591-2
138	鄰-甲苯胺 o-Toluidine; 2-Aminotoluene	202-429-0
139	N-甲基乙醯胺 N-methylacetamide	201-182-6
140	1-溴丙烷 1-bromopropane; n-propyl bromide	203-445-0
141	鎘 Cadmium	231-152-8
142	氧化鎘 Cadmium oxide	215-146-2
143	鄰苯二甲酸二戊酯 Dipentyl phthalate (DPP)	205-017-9
144	支鏈及直鏈乙氧基壬基酚-包括含有9個碳烷基鏈及所有含有含直鏈或支鏈之9個碳烷基鏈UVCB物質、聚合物及同系物、包括獨立同分異構物及複合物 4-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]	-
145	2-(2'-羥基-3'-異丁基-5'-叔丁基苯基)苯並三唑 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1
146	2-(2'-羥基-3'-5'-二叔戊基苯基)苯並三唑 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8
147	2-(2'-羥基-3',5'-二叔丁基苯基)-5-氯代苯並三唑 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8
148	2-苯並三唑-2-基-4,6-雙叔丁基苯酚 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6
149	全氟辛酸銨 Ammoniumpentadecafluorooctanoate (APFO)	223-320-4
150	全氟辛酸 Pentadecafluorooctanoic acid (PFOA)	206-397-9
151	磷酸三(二甲苯)酯 Trixylyl phosphate	246-677-8
152	鄰苯二甲酸二己酯 (支鏈和直鏈) 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5
153	氯化鎘 Cadmium chloride	233-296-7
154	過硼酸鈉 Sodium perborate; perboric acid, sodium salt	239-172-9 234-390-0
155	過氧偏硼酸鈉 Sodium peroxometaborate	231-556-4
156	氟化鎘 Cadmium fluoride	232-222-0
157	硫酸鎘 Cadmium sulphate	233-331-6
158	2-(2'-羥基-3',5'-二叔丁基苯基)-苯並三唑(紫外線吸收劑320) 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6
159	2-(2'-羥基-3',5'-二叔戊基苯基)-苯並三唑(紫外線吸收劑328) 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8
160	二正辛基-双(2-乙基己基巰基乙酸酯)錫 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4
161	二正辛基-双(2-乙基己基巰基乙酸酯)錫和單辛基-三(2-乙基己基巰基乙酸酯)錫的反應物 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 DOTE and MOTE)	-

No.	高關注物質名稱 Anticipated SVHC Substance	EC 號碼 EC No.
162	鄰苯二甲酸二(C6-C6)烷基酯：(癸基·己基·辛基)酯與1,2-鄰苯二甲酸的複合物且鄰苯二甲酸二己酯含量≥0.3% 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	271-094-0 272-013-1
163	5-仲丁基-2-(2,4-二甲基環己-3-烯-1-基)-5-甲基-1,3-二噁烷[1]·5-仲丁基-2-(4,6-二甲基環己-3-烯-1-基)-5-甲基-1,3-二噁烷[2] [覆蓋任何[1]和[2]或者其任意組合的單獨的異構體(卡拉花酸及其同分易構物)] 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]	-
164	硝苯 Nitrobenzene	202-716-0
165	2,4-二叔丁基-6-(5-氯苯三唑-2-基)苯酚 (UV-327) 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8
166	2-(2H-苯并三唑-2-基)-4-叔丁基-6-二級丁基苯酚(UV-350) 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1
167	1,3-丙磺內酯 1,3-propanesultone	214-317-9
168	全氟壬酸及其鈉與銨鹽 Perfluorononan-1-oic-acid and its sodium and ammonium salt	206-801-3
169	苯并[a]芘 Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5
170	雙酚A 4,4'-isopropylidenediphenol (bisphenol A)	201-245-8
171	支鏈與直鏈 4-庚基苯酚烷基支鏈及/或支鏈以 7 個碳共價於酚的對位, 含蓋所有由單一或多種異構物組合的明確定義物質及 UVCB 物質 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]	-
172	全氟癸酸·及其鈉與銨鹽 全氟癸酸銨 全氟癸酸鈉 Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3 221-470-5
173	對(1,1-二甲基丙基)苯酚 p-(1,1-dimethylpropyl)phenol	201-280-9
174	全氟己-1-磺酸及其鹽類 Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-
175	苯並[a]菲 Chrysene	205-923-4
176	苯並[a]蒽 Benz[a]anthracene	200-280-6
177	硝酸鎘 Cadmium nitrate	233-710-6
178	氫氧化鎘 Cadmium hydroxide	244-168-5
179	碳酸鎘 Cadmium carbonate	208-168-9
180	德克隆 Dechlorane Plus (TM)	-
181	1,3,4-噻唑烷-2,5-二硫酮·甲醛及4-庚基苯酚支鏈及直鏈反應物, (RP-HP) [含≥ 0.1% w/w 支鏈及直鏈4-庚基苯酚] Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-
182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride; TMA)	209-008-0
183	Benzo[ghi]perylene	205-883-8

No.	高關注物質名稱 Anticipated SVHC Substance	EC 號碼 EC No.
184	Octamethylcyclotetrasiloxane (D4)	209-136-7
185	Decamethylcyclopentasiloxane (D5)	208-764-9
186	Dodecamethylcyclohexasiloxane (D6)	208-762-8
187	Disodium octaborate	234-541-0
188	Ethylenediamine	203-468-6
189	Lead	231-100-4
190	Terphenyl hydrogenated	262-967-7
191	Dicyclohexyl phthalate (DCHP)	201-545-9
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane 2,2-双(4'-羟基苯基)-4-甲基戊烷 / 4,4'-(1,3-二甲基丁基)二苯酚	401-720-1
193	苯并(k)荧蒽 Benzo[k]fluoranthene	205-916-6
194	荧蒽 Fluoranthene	205-912-4
195	菲 Phenanthrene	201-581-5
196	芘 Pyrene	204-927-3
197	1,7,7-trimethyl-3-(phenylmethylene) bicycle [2.2.1] heptan-2-one 1,7,7-三甲基-3-(苯亚甲基)双环[2,2,1]庚烷-2-酮	239-139-9
198	2,3,3,3-四氟-2-(七氟丙氧基)丙酸、其鹽類及其醯基鹵化物(包含其各自的異構體及其組合) 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-
199	4-三級丁酚 4-tert-butylphenol	203-772-9
200	參(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)	-
201	乙酸2-甲氧基乙酯 2-methoxyethyl acetate	202-679-0
202	二異己基鄰苯二甲酸酯 Diisohexyl phthalate	276-090-2
203	2-苄基-2-二甲氨基-1-(4-嗎啉苯基)丁酮 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3
204	2-甲基-1-(4-甲硫基苯基)-2-嗎啡基-1-丙酮 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6
205	全氟丁磺酸及其相關鹽類 Perfluorobutane sulfonic acid (PFBS) and its salts	-
206	1-乙烯基咪唑 1-vinylimidazole	214-012-0
207	2-甲基咪唑 2-methylimidazole	211-765-7
208	4-羥基苯甲酸丁酯 butyl 4-hydroxybenzoate	202-318-7
209	二丁基雙(2,4-戊二酮基)錫 Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0
210	雙(2-(2-甲氧基乙氧基)乙基)醚bis(2-(2-methoxyethoxy) ethyl) ether	205-594-7
211	二月桂酸二辛基錫 · 錫烷 · 二辛基 · 雙(椰油醯氧基)衍生物 · 以及任何其他錫烷 · 二辛基 · 雙(脂肪醯氧基)衍生物 · 其中C12為脂肪醯氧基部分的主要碳原子數 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	-

No.	高關注物質名稱 Anticipated SVHC Substance	EC 號碼 EC No.
212	1,4-二氧六環 1,4-dioxane	204-661-8
213	2,2-bis(bromomethyl)propane,1,3-diol (BMP) 2,2-雙(溴甲基)-1,3-丙二醇	221-967-7
	2,2-dimethylpropan-1-ol, tribromo derivative / 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 3-溴-2,2-雙(溴甲基)-1-丙醇	253-057-0
	2,3-dibromo-1-propanol (2,3-DBPA) 2,3-二溴-1-丙醇	202-480-9
214	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers 2-(4-叔丁基苄基)丙醛及其各自立體異構物	-
215	雙酚B 4,4'-(1-methylpropylidene) bisphenol; (bisphenol B)	201-025-1
216	戊二醛 Glutaral	203-856-5
217	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] 中鏈氯化石蠟[UVCB物質·含量大於或等於80%碳鏈長度在C14至C17範圍內的直鏈氯代烷烴]	-
218	硼酸鈉鹽 Orthoboric acid, sodium salt	237-560-2
219	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) 透過由寡聚物反應烷基化的酚產物(主要在對位位置)具有12個碳支鏈或直鏈·並涵蓋其他同分異構物與/或其它組合	-
220	(±)-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) (±)-1,7,7-三甲基-3-[(4-甲基苄基)亞甲基]二環[2.2.1]庚烷-2-酮·包括各個異構體和/或其組合 (4-MBC)	253-242-6
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC) 6,6'雙叔丁基-2,2'-亞甲基雙對甲酚 (DBMC)	204-327-1
222	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 硫-(三環[5.2.1.0'2,6]癸-3-烯-8(或9)-基) 氧-(異丙基或異丁基或2-乙基己基) 氧-(異丙基或異丁基或2-乙基己基) 二硫代磷酸酯	401-850-9
223	tris(2-methoxyethoxy)vinylsilane 三(2-甲氧基乙氧基)乙烯基矽烷	213-934-0
224	N-(hydroxymethyl)acrylamide N-(羥甲基)丙烯醯胺	213-103-2
225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene] 1,1'-[乙烷-1,2-二基雙氧基]雙[2,4,6-三溴苯]	253-692-3
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol 2,2',6,6'-四溴-4,4'-異亞丙基二苯酚	201-236-9
227	4,4'-sulphonyldiphenol 4,4'-磺醯基二苯酚	201-250-5
228	Barium diboron tetraoxide 四氧化二硼鋇	237-222-4

No.	高關注物質名稱 Anticipated SVHC Substance	EC 號碼 EC No.
229	bis(2-ethylhexyl)tetrabromophthalate covering any of the individual isomers and/or combinations thereof: Bis(2-ethylhexyl) tetrabromophthalate 雙(2-乙基己基)四溴鄰苯二甲酸酯·包括任何單個異構體和/或其組合: 四溴鄰苯二甲酸雙(2-乙基己酯)	247-426-5
230	Isobutyl 4-hydroxybenzoate 4-羥基苯甲酸異丁酯	224-208-8
231	Melamine 三聚氰胺	203-615-4
232	Perfluoroheptanoic acid and its salts: Sodium perfluoroheptanoate; Perfluoroheptanoic acid; potassium perfluoroheptanoate; Ammonium perfluoroheptanoate 全氟庚酸及其鹽類	243-518-4; 206-798-9; -; 228-098-2
233	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 2,2,3,3,5,5,6,6-八氟-4-(1,1,1,2,3,3,3-七氟丙-2-基)【口末】啉和2,2,3,3,5,5,6,6-八氟-4-(七氟丙基)【口末】啉的反應物	473-390-7
234	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 二苯基(2,4,6-三甲基苯甲醯基)膦氧化物	278-355-8
235	Bis(4-chlorophenyl) sulphone 雙(4-氯苯基)磺	201-247-9
236	2,4,6-tri-tert-butylphenol 2,4,6-參-三級-丁基苯酚	211-989-5
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol 2-(2H-苯并三唑-2-基)-4-(1,1,3,3-四甲基丁基)苯酚	221-573-5
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one 2-(二甲胺基)-2[(4-甲基苯基)甲基]-1-[4-(【口末】啉4-基)苯基]丁-1-酮	438-340-0
239	Bumetrizole 布美三唑	223-445-4
240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol 2-苯基丙烯與苯酚的寡聚和烷基化反應產物	700-960-7
241	Bis(α,α-dimethylbenzyl) peroxide 雙(α,α-二甲基苄基)的過氧化物	201-279-3
242	Triphenyl phosphate 磷酸三苯酯	204-112-2
243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1yl]hexanoic acid 6-[(C10-C13)-烷基(支鏈、不飽和)-2,5-二氧吡咯烷-1-基]己酸	701-118-1
244	O,O,O-triphenyl phosphorothioate O,O,O-三苯基硫代磷酸酯	209-909-9
245	Octamethyltrisiloxane 八甲基三矽氧烷	203-497-4
246	Perfluamine 全氟胺	206-420-2

No.	高關注物質名稱 Anticipated SVHC Substance	EC 號碼 EC No.
247	reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives 三苯基硫代磷酸與三級丁基苯基衍生物的反應產物	421-820-9
248	1,1,1,3,5,5,5-heptamethyl-3[(trimethylsilyl)oxy]trisiloxane [三甲基矽基]氧-三矽氧烷	241-867-7
249	Decamethyltetrasiloxane 十甲基四矽氧烷	205-491-7
250	Tetra(sodium/potassium) 7-[(E)-{2acetamido-4-[(E)-(4-{[4-chloro-6-({2[(4-fluoro-6-{{4(vinylsulfonyl)phenyl}amino)-1,3,5triazine-2-yl)amino]propyl}amino)1,3,5-triazine-2-yl]amino}-5sulfonato-1-naphthyl)diazanyl]-5methoxyphenyl}diazenyl]-1,3,6naphthalenetrisulfonate; Reactive Brown 51 7-[(E)-{2-乙醯胺基-4-[(E)(4-{[4-氯-6-({2-[(4-氟-6-{{4-(乙烯基磺醯基)苯基}胺基)-1,3,5-三【口井】-2-基}胺基)丙基}胺基)-1,3,5-三【口井】-2-基}胺基)-5-磺酸根-1-萘基}偶氮]-5-甲氧基苯基}偶氮]-1,3,6-萘三磺酸二鈉/鉀鹽; 反應棕 51	466-490-7
251	1,1'-(ethane-1,2-diyl)bis[pentabromobenzene](DBDPE) 1,1'-(1,2-亞乙基)双[五溴苯] (十溴二苯乙烷 · DBDPE)	284-366-9
252	n-hexane 正己烷	203-777-6
253	4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol and its salts 4,4'-[2,2,2-三氟-1-(三氟甲基)亞乙基]雙酚及其鹽類	-

注意事項 Notes:

盛群產品所使用的物料中符合歐盟《化學物品的註冊、評估、授權與限制法令》1907/2006/EC (REACH)要求之高度關注物質(SVHC)。當 SVHC 定義的物質含量 $\geq 0.1\%$ 與 ≥ 1 ton/year，盛群會揭露相關訊息，以符合歐盟法規要求。

All raw materials that are used inside Holtek's products meet the SVHC (Substances of Very High Concern) requirements of REACH, 1907/2006/EC (Registration, Evaluation, Authorisation of Chemicals). When the substances defined in the SVHC is $\geq 0.1\%$ and ≥ 1 ton/year, Holtek will disclose the related information to meet the requirements of European Union regulations.