

# 久正光電股份有限公司

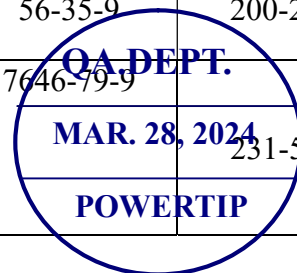
POWERTIP TECH. CORP.

## 歐盟 REACH 宣告書

### Declaration of Introduction of Registration, Evaluation Authorization of Chemical(REACH)

本公司依據 REACH 法規第 33 條第 2 項要求，所生產產品其高關注物質(SVHC)的含有狀況如下：  
Based on REACH's article 33 section 2, Limitation on SVHC content for all manufactured products are as below.

NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
1	Anthracene 蒽	120-12-7	204-371-1	<1000ppm
2	4, 4'-Diaminodiphenylmethane 4, 4- 二氨基二苯甲烷	101-77-9	202-974-4	<1000ppm
3	Dibutyl phthalate 鄰苯二甲酸二丁酯(DBP)	84-74-2	201-557-4	<1000ppm
4	Benzyl butyl phthalate 鄰苯二甲酸甲苯基丁酯(BBP)	85-68-7	201-622-7	<1000ppm
5	Bis(2-ethyl (hexyl) phthalate) 鄰苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	204-211-0	<1000ppm
6	5-tert-butyl-2, 4, 6-trinitro-m-xylene(musk xylene) 二甲苯麝香	81-15-2	201-329-4	<1000ppm
7	Hexabromocyclododecane(HBCD D) 六溴環十二烷	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7 and 134237-52-8	247-148-4 and 221-695-9	<1000ppm
8	Alkanes C10-13, chloro (Short Chain Chlorinated Paraffins)短鏈氯化石蠟(C10-13)	85535-84-8	287-476-5	<1000ppm
9	Bis(tributyltin)oxide 氧化雙三丁基錫	56-35-9	200-268-0	<1000ppm
10	Cobalt dichloride 氯化鈷	7646-79-9	231-589-4	<1000ppm



NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
11	Diarsenic pentaoxide 五氧化二砷	1303-28-2	215-116-9	<1000ppm
12	Diarsenic trioxide 三氧化二砷	1327-53-3	215-481-4	<1000ppm
13	Triethyl arsenate 三乙基砷酸鹽	15606-95-8	427-700-2	<1000ppm
14	Lead hydrogen arsenate 砷酸氫鉛	7784-40-9	232-064-2	<1000ppm
15	Sodium dichromate 重鉻酸鈉二水合物	7789-12-0 10588-01-9	234-190-3	<1000ppm
16	2,4-Dinitrotoluene 2,4-二硝基甲苯	121-14-2	204-450-0	<1000ppm
17	Anthracene oil 蒽油	90640-80-5	292-602-7	<1000ppm
18	Anthracene oil, anthracene paste, distn. Lights 蒽油, 蒽糊, 輕油	91995-17-4	295-278-5	<1000ppm
19	Anthracene oil, anthracene paste, anthracene fraction 蒽油, 蒽糊, 蒽餾分	91995-15-2	295-275-9	<1000ppm
20	Anthracene oil, anthracene-low 蒽油, 含蒽量少	90640-82-7	292-604-8	<1000ppm
21	Anthracene oil, anthracene paste 蒽油, 蒽糊	90640-81-6	292-603-2	<1000ppm
22	Diisobutyl phthalate(DIBP) 鄰苯二甲酸二異丁酯	84-69-5	201-553-2	<1000ppm
23	Lead chromate 鉻酸鉛	7758-97-6	231-846-0	<1000ppm
24	Lead chromate molybdate sulfate red (C.I. Pigment Red 104) 紅色鉬鉻酸鉛硫酸鹽; 顏色索引: 顏料紅 104	12656-85-8	235-759-9	<1000ppm
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34) 黃色硫化鉻酸鉛; 顏色索引: 顏料 黃 34	1344-37-2	215-693-7	<1000ppm
26	Acrylamide 丙烯醯胺	79-06-1	201-173-7	<1000ppm

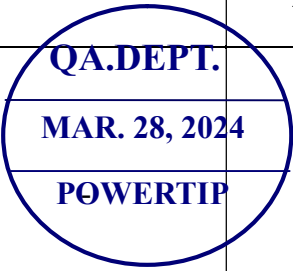
NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
27	Tris(2-chloroethyl)phosphate 磷酸三(2-氯乙基)酯	115-96-8	204-118-5	<1000ppm
28	Coal tar pitch, high temperature 煤瀝青,高溫	65996-93-2	266-028-2	<1000ppm
29	Sodium chromate 鉻酸鉍	7775-11-3	231-889-5	<1000ppm
30	Ammonium dichromate 重鉻酸鉍	7789-09-5	232-143-1	<1000ppm
31	Potassium dichromate 重鉻酸鉀	7778-50-9	231-906-6	<1000ppm
32	Potassium chromate 鉻酸鉀	7789-00-6	232-140-5	<1000ppm
33	Boric acid 硼酸	10043-35-3 11113-50-1	233-139-2 234-343-4	<1000ppm
34	disodium tetraborate, anhydrous 無水四硼酸鈉	1303-96-4 1330-43-4 12179-04-3	215-540-4	<1000ppm
35	Tetraboron disodium heptaoxide,hydrate 水合硼酸鈉	12267-73-1	235-541-3	<1000ppm
36	Trichloroethylene 三氯乙烯	79-01-6	201-167-4	<1000ppm
37	Cobalt(II) sulphate 硫酸鈷(二價)	10124-43-3	233-334-2	<1000ppm
38	Cobalt(II) dinitrate 硝酸鈷(二價)	10141-05-6	233-402-1	<1000ppm
39	Cobalt(II) carbonate 碳酸鈷(二價)	513-79-1	208-169-4	<1000ppm
40	Cobalt(II) diacetate 醋酸鈷(二價)	71-48-7	200-755-8	<1000ppm
41	2-Methoxyethanol 乙二醇甲醚	109-86-4	203-713-7	<1000ppm
42	2-Ethoxyethanol 乙二醇乙醚	110-80-5	203-804-1	<1000ppm
43	Chromium trioxide 三氧化鉻	1333-82-0	215-607-8	<1000ppm

NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
44	Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic 從三氧化鉻與其它寡聚體生成的酸類: 鉻酸, 重鉻酸, 鉻酸與重鉻酸的寡聚體	7738-94-5 13530-68-2	231-801-5 236-881-5	<1000ppm
45	2-ethoxyethyl acetate 乙二醇乙醚乙酸酯	111-15-9	203-839-2	<1000ppm
46	Strontium chromate 鉻酸鋇	7789-06-2	232-142-6	<1000ppm
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters 鄰苯二甲酸二(C7-11 支鏈與直鏈)烷基酯	68515-42-4	271-084-6	<1000ppm
48	Hydrazine 聯氨	7803-57-8 302-01-2	206-114-9	<1000ppm
49	1- methyl-2-pyrrolidone N-甲基吡咯烷酮	872-50-4	212-828-1	<1000ppm
50	1,2,3-trichloropropane 1,2,3-三氯丙烷	96-18-4	202-486-1	<1000ppm
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich 鄰苯二甲酸二(C6-8 支鏈與直鏈)烷基酯, 富 C7	71888-89-6	276-158-1	<1000ppm
52	4-(1,1,3,3-tetramethylbutyl) phenol 4 - (1,1,3,3 - 四甲基丁基)苯酚	140-66-9	205-426-2	<1000ppm
53	2-Methoxyaniline; o-Anisidine 鄰甲氧基苯胺	90-04-0	201-963-1	<1000ppm
54	Arsenic acid 砷酸	7778-39-4	231-901-9	<1000ppm
55	Calcium arsenate 砷酸鈣	7778-44-1	231-904-5	<1000ppm
56	Trilead diarsenate 砷酸鉛	3687-31-8	222-979-5	<1000ppm

NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
57	1,2-Dichloroethane 1,2-二氯乙烷	107-06-2	203-458-1	<1000ppm
58	Bis(2-methoxyethyl) ether 双(2-甲氧基乙基)醚	111-96-6	203-924-4	<1000ppm
59	Bis(2-methoxyethyl) phthalate 鄰苯二甲酸雙(2-甲氧基乙基)酯	117-82-8	204-212-6	<1000ppm
60	N,N-dimethylacetamide (DMAC) N,N-二甲基乙醯胺	127-19-5	204-826-4	<1000ppm
61	Formaldehyde, oligomeric reaction products with aniline 甲醛與苯胺的寡聚反應物	25214-70-4	500-036-1	<1000ppm
62	Lead diazide, Lead azide 疊氮化鉛	13424-46-9	236-542-1	<1000ppm
63	Lead styphnate 中性斯蒂酚酸鉛	15245-44-0	239-290-0	<1000ppm
64	2,2-dichloro-4,4-methylenedianiline (MOCA) 2,2'-二氯-4,4'-二氨基二苯基甲烷	101-14-4	202-918-9	<1000ppm
65	Dichromium tris(chromate) 鉻酸鉻	24613-89-6	246-356-2	<1000ppm
66	Potassium hydroxyoctaoxodizincatedichromate 氫氧化鉻酸鋅鉀	11103-86-9	234-329-8	<1000ppm
67	Pentazinc chromate octahydroxide 八氫氧化五鉻酸鋅	49663-84-5	256-418-0	<1000ppm
68	Phenolphthalein 酚酞	77-09-8	201-004-7	<1000ppm
69	Aluminosilicate Refractory Ceramic Fibres (RCF) 矽酸鋁，耐火陶瓷纖維(主要成分濃度於可變範圍內)	NA	NA	<1000ppm
70	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) 鋯矽酸鋁，耐火陶瓷纖維(主要成分濃度於可變範圍內)	NA	NA	<1000ppm

NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
71	Lead dipicrate 苦味酸鉛	6477-64-1	229-335-2	<1000ppm
72	$\alpha, \alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] 溶劑藍 4	6786-83-0	229-851-8	<1000ppm
73	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) 4,4'-(对二甲氨基)二苯基甲烷(米氏鹼)	101-61-1	202-959-2	<1000ppm
74	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC) 異氰尿酸 $\beta$ -三縮水甘油酯	59653-74-6	423-400-0	<1000ppm
75	Diboron trioxide 三氧化二硼	1303-86-2	215-125-8	<1000ppm
76	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) 三甘醇二甲醚	112-49-2	203-977-3	<1000ppm
77	Lead(II) bis(methanesulfonate) 甲基磺酸鉛	17570-76-2	401-750-5	<1000ppm
78	Formamide 甲醯胺	75-12-7	200-842-0	<1000ppm
79	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] a,a-二[(二甲氨基)苯基]-4-甲氨基苯甲醇	561-41-1	209-218-2	<1000ppm

NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
80	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] 鹼性紫 3	548-62-9	208-953-6	<1000ppm
81	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) 乙二醇二甲醚	110-71-4	203-794-9	<1000ppm
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] 鹼性藍 26	2580-56-5	219-943-6	<1000ppm
83	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) 異氰尿酸三縮水甘油酯	2451-62-9	219-514-3	<1000ppm
84	4,4'-bis(dimethylamino)benzophenone (Michler's ketone) 4,4'-二(N,N-二甲氨基)二苯甲酮 (米氏酮)	90-94-8	202-027-5	<1000ppm
85	Bis(pentabromophenyl) ether (DecaBDE) 十溴二苯乙醚 (十溴二苯醚)	1163-19-5	214-604-9	<1000ppm
86	Pentacosafuorotridecanoic acid 全氟十三酸	72629-94-8	276-745-2	<1000ppm
87	Tricosafuorododecanoic acid 全氟十二烷酸	307-55-1	206-203-2	<1000ppm
88	Henicosafuoroundecanoic acid 全氟十一烷酸	2058-94-8	218-165-4	<1000ppm

NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
89	Heptacosafuorotetradecanoic acid 全氟代十四酸	376-06-7	206-803-4	<1000ppm
90	4-(1,1,3,3-tetramethylbutyl)phenol , ethoxylated [ covering well-defined substances and UVCB substances, polymers and homologues ] 辛基酚聚醚-9			<1000ppm
91	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 ] 壬基酚	-	-	<1000ppm
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) 偶氮二甲酰胺	123-77-3	204-650-8	<1000ppm
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) 六氫鄰苯二甲酸酐	85-42-7 13149-00-3 14160-21-3	201-604-9 236-086-3 238-009-9	<1000ppm
94	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride 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-甲基六氫苯二甲酯酐	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	<1000ppm



NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
95	Methoxy acetic acid 甲氧基乙酸	625-45-6	210-894-6	<1000ppm
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear 支鏈和直鏈 1,2-苯二羧二戊酯	84777-06-0	284-032-2	<1000ppm
97	Diisopentylphthalate(DIPP) 鄰苯二甲酸二異戊酯	605-50-5	210-088-4	<1000ppm
98	N-pentyl-isopentylphthalate 鄰苯二甲酸正戊基異戊基酯	776297-69-9	-	<1000ppm
99	1,2-Diethoxyethane 乙二醇二乙醚	629-14-1	211-076-1	<1000ppm
100	N,N-dimethylformamide; dimethyl formamide N,N-二甲基甲酰胺	68-12-2	200-679-5	<1000ppm
101	Dibutyltin dichloride (DBT) 二丁基錫	683-18-1	211-670-0	<1000ppm
102	Acetic acid, lead salt, basic 鹼式乙酸鉛	51404-69-4	257-175-3	<1000ppm
103	Trilead bis(carbonate)dihydroxide (basic lead carbonate) 鹼式碳酸鉛	1319-46-6	215-290-6	<1000ppm
104	Lead oxide sulfate 鹼式硫酸鉛	12036-76-9	234-853-7	<1000ppm
105	[Phthalato(2-)]dioxotrilead 二鹽基鄰苯二甲酸鉛	69011-06-9	273-688-5	<1000ppm
106	Dioxobis(stearato)trilead 双(十八酸基)二氧代三鉛	12578-12-0	235-702-8	<1000ppm

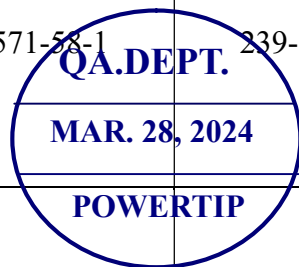
NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
107	Fatty acids, C16-18, lead salts 脂肪酸鉛鹽	91031-62-8	292-966-7	<1000ppm
108	Lead bis(tetrafluoroborate) 氟硼酸鉛	13814-96-5	237-486-0	<1000ppm
109	Lead cyanamidate 氨基氰鉛鹽	20837-86-9	244-073-9	<1000ppm
110	Lead dinitrate 硝酸鉛	10099-74-8	233-245-9	<1000ppm
111	Lead oxide (lead monoxide) 氧化鉛	1317-36-8	215-267-0	>1000ppm (in the resistor)
112	Lead tetroxide (orange lead) 四氧化三鉛	1314-41-6	215-235-6	<1000ppm
113	Lead titanium trioxide 鈦酸鉛	12060-00-3	235-038-9	<1000ppm
114	Lead Titanium Zirconium Oxide 鈦酸鉛鋯	12626-81-2	235-727-4	<1000ppm
115	Pyrochlore, antimony lead yellow 顏料黃 41	8012-00-8	232-382-1	<1000ppm
116	tetraoxide sulphate 氧化鉛與硫酸鉛的複合物	12065-90-6	235-067-7	<1000ppm
117	barium salt, lead-doped 矽酸，鋇鹽，鉛摻染的	68784-75-8	272-271-5	<1000ppm
118	Silicic acid, lead salt 矽酸鉛	11120-22-2	234-363-3	<1000ppm
119	Sulfurous acid, lead salt, dibasic 亞硫酸鉛 (II)	62229-08-7	263-467-1	<1000ppm
120	Tetraethyllead 四乙基鉛	78-00-2	201-075-4	<1000ppm
121	Tetralead trioxide sulphate 三鹼式硫酸鉛	12202-17-4	235-380-9	<1000ppm
122	Trilead dioxide phosphonate 磷酸氧化鉛	12141-20-7	235-252-2	<1000ppm
123	Furan 呋喃	110-00-9	203-727-3	<1000ppm

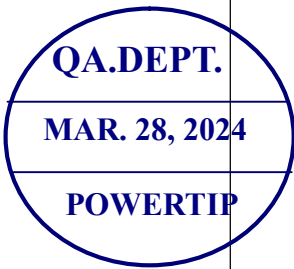
NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
124	Propylene oxide; 1,2-epoxypropane; methyloxirane 環氧丙烷	75-56-9	200-879-2	<1000ppm
125	Diethyl sulphate 硫酸二乙酯	64-67-5	200-589-6	<1000ppm
126	Dimethyl sulphate 硫酸二甲酯	77-78-1	201-058-1	<1000ppm
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine 3-乙基-2-甲基-2-(3-甲基丁基)噁唑烷	143860-04-2	421-150-7	<1000ppm
128	Dinoseb 地樂酚	88-85-7	201-861-7	<1000ppm
129	4,4'-methylenedi-o-toluidine 4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	212-658-8	<1000ppm
130	4,4'-oxydianiline and its salts 4,4'-二氨基二苯醚	101-80-4	202-977-0	<1000ppm
131	4-Aminoazobenzene; 4-Phenylazoaniline 對氨基偶氮苯	60-09-3	200-453-6	<1000ppm
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine) 2,4-二氨基甲苯	95-80-7	202-453-1	<1000ppm
133	6-methoxy-m-toluidine (p-cresidine) 2-甲氧基-5-甲基苯胺	120-71-8	204-419-1	<1000ppm
134	Biphenyl-4-ylamine 4-氨基聯苯	92-67-1	202-177-1	<1000ppm
135	o-aminoazotoluene 鄰氨基偶氮甲苯	97-56-3	202-591-2	<1000ppm
136	o-Toluidine; 2-Aminotoluene 鄰甲基苯胺	95-53-4	202-429-0	<1000ppm
137	N-methylacetamide N-甲基乙酰胺	79-16-3	201-182-6	<1000ppm
138	1-bromopropane 溴代正丙烷	106-94-5	203-445-0	<1000ppm


NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
139	Pentadecafluorooctanoic acid(PFOA) 全氟辛酸	335-67-1	206-397-9	<1000ppm
140	Ammoniumpentadecafluorooctanoate (APFO) 全氟辛酸銨	3825-26-1	223-320-4	<1000ppm
141	Cadmium oxide 氧化鎘	1306-19-0	215-146-2	<1000ppm
142	Cadmium 鎘	7440-43-9	231-152-8	<1000ppm
143	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] 4-壬基(支鏈與直鏈)苯酚乙氧基醚 支鏈和直鏈的乙氧化 4-壬基酚，包括所有在乙氧化苯酚對位的支鏈和直鏈為 9 個碳的共價烷基鏈，涵蓋包括任何單獨異構物與(或)其組合的 UVCB、可明確定義的物質、聚合物與同系物			<1000ppm
144	Dipentyl phthalate(DPP) 鄰苯二甲酸二正戊酯	131-18-0	205-017-9	<1000ppm
145	Cadmium sulphide 硫化鎘	1306-23-6	215-147-8	<1000ppm
146	Dihexyl phthalate(DNHP) 鄰苯二甲酸二己酯	84-75-3	201-559-5	<1000ppm

NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) 剛果紅	573-58-0	209-358-4	<1000ppm
148	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) 偶氮黑	1937-37-7	217-710-3	<1000ppm
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol N(乙撐硫脲)	96-45-7	202-506-9	<1000ppm
150	Lead di(acetate) 醋酸鉛	301-04-2	206-104-4	<1000ppm
151	Trixylyl phosphate 三(二甲苯基)磷酸酯	25155-23-1	246-677-8	<1000ppm
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 鄰苯二甲酸二己酯(支鏈和直鏈)	68515-50-4	271-093-5	<1000ppm
153	Cadmium chloride 氯化鎘	10108-64-2	233-296-7	<1000ppm
154	Sodium perborate; perboric acid, sodium salt 過硼酸鈉		239-172-9; 234-390-0	<1000ppm
155	Sodium peroxometaborate 過氧偏硼酸鈉	7632-04-4	231-556-4	<1000ppm

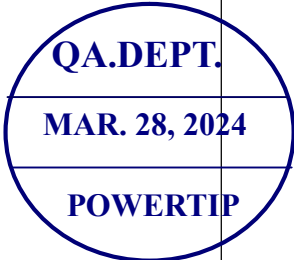
NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) 2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑； 紫外線吸收劑 UV-320	3846-71-7	223-346-6	<1000ppm
157	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) 二正辛基-双(巯乙酸 2-乙基己酯)錫 (DOTE)	15571-58-1	239-622-4	<1000ppm
158	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) DOTE 與 MOTE 的反應產物			<1000ppm
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) 2-(3,5-二叔戊基-2-羟苯基)苯并三唑； 紫外線吸收劑 UV-328	25973-55-1	247-384-8	>1000 ppm This substance is contained in polarizers that have the function of increasing the viewing angle. This substance is expected to be removed in August 2024.
160	Cadmium fluoride 氟化鎘	7790-79-6	232-222-0	<1000ppm
161	Cadmium sulphate 硫酸鎘	10124-36-4, 31119-53-6	233-331-6	<1000ppm




NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
162	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) 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 $\geq 0.3\%$	68515-51-5 68648-93-1	271-094-0 272-013-1	<1000ppm
163	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] [1]為卡拉花醛，[2]為卡拉花醛的一種同分異構化合物			<1000ppm
164	1,3-propanesultone 1,3 丙基磺酸內酯	1120-71-4	214-317-9	<1000ppm
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) 2,4-二-叔丁基-6-(5-氯-2H-苯并三唑-2-基)苯酚 紫外线吸收剂 UV-327	3864-99-1	223-383-8	<1000ppm
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) 2-(2H-苯并三唑-2-基)-4-特丁基-6-仲丁基苯酚 紫外线吸收剂 UV-350	36437-37-3	253-037-1	<1000ppm
167	Nitrobenzene 硝基苯	98-95-3	202-716-0	<1000ppm

NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts 全氟壬酸及其鈉鹽和銨鹽 *Ammonium salts of perfluorononan-1-oic-acid *Perfluorononan-1-oic-acid *Sodium salts of perfluorononan-1-oic-acid	375-95-1 21049-39-8 4149-60-4	206-801-3	<1000ppm
169	Benzo[def]chrysene (BaP) 多環芳香烴-苯並[a]芘	50-32-8	200-28-5	<1000ppm
170	4,4'-isopropylidenediphenol (bisphenol A) 雙酚 A	80-05-7	201-245-8	<1000ppm
171	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] 4-庚基苯酚，支鍊及直鍊包括含有 7 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 7 個碳烷基鏈的 UVCB 物質			<1000ppm
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts 十九氟癸酸及其鈉和銨鹽	3108-42-7 335-76-2 3830-45-3	206-400-3 221-470-5	<1000ppm
173	p-(1,1-dimethylpropyl) phenol = 4-tert-pentylphenol (PTAP) 對(1,1-二甲基丙基)苯酚	80-46-6	201-280-9	<1000ppm
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS) 全氟己烷-1-磺酸及其鹽			<1000ppm



NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
175	Benz[a]anthracene 苯並[a]蒽	56-55-3 1718-53-2	200-280-6	<1000ppm
176	Cadmium carbonate 碳酸鎘	513-78-0	208-168-9	<1000ppm
177	Cadmium hydroxide 氫氧化鎘	21041-95-2	244-168-5	<1000ppm
178	Cadmium nitrate 硝酸鎘	10022-68-1 10325-94-7	233-710-6	<1000ppm
179	Chrysene 屈	218-01-9 1719-03-5	205-923-4	<1000ppm
180	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) 十二氯五環 [12.2.1.16,9.02,13.05,10]十八碳-7,15-二烯 ("Dechlorane Plus" <sup>TM</sup> )			<1000ppm
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) 反應產物 1,3,4-噻二唑烷-2,5-二硫酮，甲醛和 4-庚基苯酚，支鍊和直鍊 (RP-HP)			<1000ppm
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA 苯-1,2,4-三羧酸 1,2-酐 偏苯三酸酐;TMA	552-30-7	209-008-0	<1000ppm
183	Benzo[ghi]perylene 苯並[GHI]芘	191-24-2	205-883-8	<1000ppm

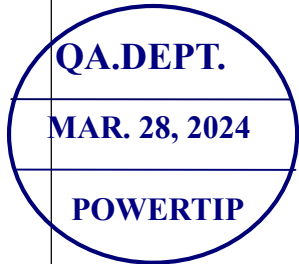
NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
184	Decamethylcyclopentasiloxane D5 十甲基環戊矽氧烷	541-02-6	208-764-9	<1000ppm
185	Dicyclohexyl phthalate DCHP 鄰苯二甲酸二環己酯	84-61-7	201-545-9	<1000ppm
186	Disodium octaborate 八硼酸二鈉	12008-41-2	234-541-0	<1000ppm
187	Dodecamethylcyclohexasiloxane D6 十二甲基環六矽氧烷	540-97-6	208-762-8	<1000ppm
188	Ethylenediamine EDA 乙二胺	107-15-3	203-468-6	<1000ppm
189	Lead 鉛	7439-92-1	231-100-4	<1000ppm
190	Octamethylcyclotetrasiloxane D4 八甲基環四	556-67-2	209-136-7	<1000ppm
191	Terphenyl, hydrogenated 三聯苯，氫化	61788-32-7	262-967-7	<1000ppm
192	1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one 2- (3-benzylidene camphor) 1,7,7-三甲基-3-(苯亞甲基)雙環 [2,2,1]庚烷-2-酮 (3-苯亞甲基樟腦)	15087-24-8	239-139-9	<1000ppm
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane 2,2-雙(4'-羥基苯基)-4-甲基戊烷	6807-17-6	401-720-1	<1000ppm
194	Benzo[k]fluoranthene 苯并[k]芘	207-08-9	205-916-6	<1000ppm
195	Fluoranthene 芘	206-44-0 93951-69-0	205-912-4	<1000ppm
196	Phenanthrene 菲	85-01-8	201-581-5	<1000ppm

NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
197	Pyrene 芘	129-00-0 1718-52-1	204-927-3	<1000ppm
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof 2,3,3,3-四氟-2-(七氟丙氧基)丙酸，即其鹽類與鹵化醯類 (包括它們各自的異構物及其組合)			<1000ppm
199	2-methoxyethyl acetate 2-甲氧基乙酸乙酯	110-49-6	203-772-9	<1000ppm
200	4-tert-butylphenol 4-叔丁基苯酚	98-54-4	202-679-0	<1000ppm
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq$ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) 三 (4-壬基苯基，支鍊和直鍊) 亞磷酸酯(TNPP)(4-壬基酚 4-NP，支鍊和直鍊濃度 $\geq$ 0.1%重量比)			<1000ppm
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone 2-苄基-2-二甲基氨基-1-(4-嗎啉苯基)丁酮	119313-12-1	404-360-3	<1000ppm
203	2-methyl-1-(4-methylthiophenyl)-2-morpholino propan-1-one 2-甲基-1-[4-(甲基硫代)苯基]-2-(4-嗎啉基)-1-丙酮	71868-10-5	400-600-6	<1000ppm
204	Diisohexyl phthalate 二異己基鄰苯二甲酸酯	71850-09-4	276-090-2	<1000ppm

NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
205	Perfluorobutane sulfonic acid (PFBS) and its salts 全氟丁烷磺酸及其鹽類			<1000ppm
206	Dibutylbis(pentane-2,4-dionato-O, O')tin 二丁基雙(戊烷-2,4-去離子-O, O')錫	22673-19-4	245-152-0	<1000ppm
207	butyl 4-hydroxybenzoate 4-羥基苯甲酸丁酯	94-26-8	202-318-7	<1000ppm
208	2-methylimidazole 2-甲基咪唑	693-98-1	211-765-7	<1000ppm
209	1- vinylimidazole 1-乙烯基咪唑	1072-63-5	214-012-0	<1000ppm
210	Bis(2-(2-methoxyethoxy)ethyl) ether 四乙二醇二甲醚	143-24-8	205-594-7	<1000ppm
211	<p>Diocetyl tin 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</p> <p>二月桂酸二辛基錫, 錫烷, 二辛基-, 雙椰油醯氧基衍生物, 及其它錫烷, 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)</p> <p>*Diocetyl tin dilaurate 二月桂酸二辛基錫</p> <p>* dioctyl tin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs. 二月桂酸二辛基錫; 錫烷、二辛基、雙(椰油醯氧基)衍生物</p> <p>*Stannane, dioctyl-, bis(coco acyloxy) derivs. 錫烷, 二辛基-, 雙(椰油醯氧基)衍生物</p>	<p>3648-18-8</p> <p>91648-39-4</p>	<p>222-883-3</p> <p>293-901-5</p>	<1000ppm



NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
212	1,4-dioxane 1,4-二噁烷	123-91-1	204-661-8	<1000ppm
214	Medium-chain chlorinated paraffins (MCCP) 中鏈氯化石蠟 (MCCP) * Alkanes, C14-16, chloro 烷烴, C14-16, 氯 * Alkanes, C14-17, chloro 烷烴, C14-17, 氯 * di-, tri- and tetrachlorotetradecane 二、三和四氯十四烷 * Tetradecane, chloro derivs 十四烷, 氯衍生物	1372804-76-6 85535-85-9 198840-65-2	287-477-0 950-299-5	<1000ppm
213	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers 2-(4-叔丁基苄基)丙醛及其立體異構體 *(2R)-3-(4-tert-butylphenyl)-2-methylpropanal (2R)-3-(4-叔丁基苄基)-2-甲基丙醛 *2-(4-tert-butylbenzyl) propionaldehyde 2-(4-叔丁基苄基)丙醛 *(2S)-3-(4-tert-butylphenyl)-2-methylpropanal (2S)-3-(4-叔丁基苄基)-2-甲基丙醛	75166-31-3 80-54-6 75166-30-2	201-289-8	<1000ppm
215	4,4'-(1-methylpropylidene) bisphenol 4,4'-(1-甲基亞丙基)雙酚	77-40-7	201-025-1	<1000ppm
216	glutaral 戊二醛	111-30-8	203-856-5	<1000ppm



NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
217	<p>orthoboric acid, sodium salt 原硼酸，鈉鹽</p> <p>*boric acid (H3BO3), sodium salt, hydrate 硼酸 (H3BO3)，鈉鹽，水合物</p> <p>* Boric acid (H3BO3), disodium salt 硼酸 (H3BO3)，二鈉鹽</p> <p>*Trisodium orthoborate 原硼酸三鈉</p> <p>*Boric acid, sodium salt 硼酸，鈉鹽</p> <p>*Orthoboric acid, sodium salt 原硼酸鈉鹽</p> <p>*Boric acid (H3BO3), sodium salt (1:1) 硼酸 (H3BO3)，鈉鹽 (1:1)</p>	<p>25747-83-5</p> <p>22454-04-2</p> <p>14312-40-4</p> <p>1333-73-9</p> <p>13840-56-7</p> <p>14890-53-0</p>	<p>238-253-6</p> <p>215-604-1</p> <p>237-560-2</p>	<p>&lt;1000ppm</p>



NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
218	<p>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)            2,2-雙(溴甲基)丙烷-1,3-二醇 (BMP); 2,2-二甲基丙-1-醇, 三溴衍生物/3-溴-2,2-雙(溴甲基)-1-丙醇 (TBNPA); 2,3-二溴-1-丙醇 (2,3-DBPA)            *3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)            3-溴-2,2-雙(溴甲基)-1-丙醇 (TBNPA)            *2,2-dimethylpropan-1-ol, tribromo derivative (TBNPA)            2,2-二甲基丙-1-醇, 三溴衍生物 (TBNPA)            *2,2-bis(bromomethyl)propane-1,3-diol (BMP)            2,2-雙(溴甲基)丙烷-1,3-二醇 (BMP)            *2,3-dibromo-1-propanol (2,3-DBPA)            2,3-二溴-1-丙醇 (2,3-DBPA)</p>	<p>1522-92-5  36483-57-5  3296-90-0  96-13-9</p>	<p>  253-057-0  221-967-7  202-480-9</p>	<p>&lt;1000ppm</p>

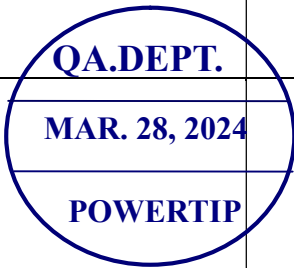


NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
219	<p>Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)            苯酚，烷基化產物（主要在對位）具有來自低聚的富含 C12 的支鏈烷基鏈，涵蓋任何單個異構體和/或其組合 (PDDP)</p> <p>*Phenol, 4-dodecyl, branched            苯酚，4-十二烷基，支鏈</p> <p>*4-isododecylphenol            4-異十二烷基苯酚</p> <p>*Phenol, 4-isododecyl-            苯酚，4-異十二烷基-</p> <p>*Phenol, dodecyl-, branched            苯酚，十二烷基，支鏈</p> <p>*Phenol, (tetrapropenyl) derivatives            苯酚，(四丙烯基) 衍生物</p> <p>*Phenol, tetrapropylene-            苯酚、四丙烯-</p>	<p>210555-94-5</p> <p>27459-10-5</p> <p>27147-75-7</p> <p>121158-58-5</p> <p>74499-35-7</p> <p>57427-55-1</p>	310-154-3	<1000ppm
220	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	204-327-1	<1000ppm
221	tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	<1000ppm
222	(±)-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)			<1000ppm
223	S-(tricyclo(5.2.1.0' <sup>2</sup> ,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	<1000ppm





NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	<1000ppm
225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	253-692-3	<1000ppm
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	201-236-9	<1000ppm
227	4,4'-sulphonyldiphenol	80-09-1	201-250-5	<1000ppm
228	Barium diboron tetraoxide	13701-59-2	237-222-4	<1000ppm
229	bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof			<1000ppm
230	Isobutyl 4-hydroxybenzoate	4247-02-3	224-208-8	<1000ppm
231	Melamine	108-78-1	203-615-4	<1000ppm
232	Perfluoroheptanoic acid and its salts			<1000ppm
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		473-390-7	<1000ppm
234	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	278-355-8	<1000ppm
235	Bis(4-chlorophenyl) sulphone	80-07-9	201-247-9	<1000ppm
236	2,4,6-tri-tert-butylphenol 2,4,6-三叔丁基苯酚	732-26-3	211-989-5	<1000ppm
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329) 紫外線吸收劑 329	3147-75-9	221-573-5	<1000ppm


  
**QA.DEPT.**  
**MAR. 28, 2024**  
**POWERTIP**

NO	物質名稱 Substance Name	化學文摘號碼 CAS No.	歐洲委員會號碼 EC No.	含有狀況 Substance contain %
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one 紫外線光引發劑 379	119344-86-4	438-340-0	<1000ppm
239	Bumetrizole (UV-326) 紫外線吸收劑 326	3896-11-5	223-445-4	>1000ppm This substance is contained in polarizers of some monochrome LCD products.
240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol 2-苯丙烯與苯酚的寡聚和烷基化反應產物	-	700-960-7	<1000ppm



\*SVHC 重量濃度的計算是基於產品的一個完整零部件。

The calculation of the weight concentration of SVHC is based on a complete component of the product.

\*所有生產產品未超過 REACH 法規附錄 XVII “限用列表” 所允許的使用量和濃度。

All manufactured products do not exceed the allowable usage levels and concentrations allowed by the “restricted list” of Annex XVII of the REACH Regulation

2024/03/28