

檢測報告 Test Report

報告編號 ECL01I013160001E
Report No. ECL01I013160001E

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申請單位 育超電工股份有限公司
Applicant YWH CHAU ELECTRIC CO., LTD.
地址 新北市土城區亞洲路 46 巷 14 號
Address NO.14, LANE 46, YEA-JOU ROAD, TU-CHENG DIST., NEW TAIPEI CITY, TAIWAN, R.O.C.

以下測試之樣品及樣品信息由申請者提供並確認

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

樣品名稱 Sample Name 線繞電阻器
樣品型號 Part No. DDR DQR ZZR FNR
樣品接收日期 2016.03.21
Sample Received Date Mar. 21, 2016
樣品檢測日期 2016.03.21-2016.03.31
Testing Period Mar. 21, 2016 to Mar. 31, 2016
檢測要求 根據客戶要求, 參照法規(EC) No 1907/2006(REACH), 對所提交樣品中 168 種高關注物質(SVHC)進行篩選測試。

Test Requested As specified by client, to screen the 168 substances of very high concern (SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s).

檢測依據/檢測結果 請參見下頁。

Test Method/Test Result(s) Please refer to the following page(s).

摘要 根據分析結果, 所提交樣品中 168 種 SVHC 濃度均小於 0.1%(w/w)。

Summary According to the analytical results, concentrations of 168 SVHC substances are all less than 0.1%(w/w) in the submitted sample(s).

主 檢
Tested by

王 東

審 核
Reviewed by

陶 英

批准
Approved by

蘇紅偉

日 期
Date

2016.03.31

蘇紅偉

實驗室高級經理 Senior Laboratory Manager

No. T172791880

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測試組信息

測試組號 Tested Group No.	測試組描述(零部件材料) Group Description (Component Material)
1	1 銀色金屬 Silvery metal
	3 銀色金屬 Silvery metal
	4 有淡藍色鍍層的金屬 Metal with light blue plating
	5 有淡藍色鍍層的金屬 Metal with light blue plating
	6 有淡藍色鍍層的金屬 Metal with light blue plating
	7 有淡藍色鍍層的金屬 Metal with light blue plating
	10 銀色金屬 Silvery metal
	11 有淡藍色鍍層的金屬 Metal with light blue plating
	12 有淡藍色鍍層的金屬 Metal with light blue plating
	13 有淡藍色鍍層的金屬 Metal with light blue plating
	14 有淡藍色鍍層的金屬 Metal with light blue plating
	15 銀色金屬 Silvery metal
	18 銀色金屬 Silvery metal
	19 銀色金屬 Silvery metal
	20 銀色金屬 Silvery metal
	21 銀色金屬 Silvery metal
	23 銀色金屬 Silvery metal
	24 銀色金屬 Silvery metal
25 銀色金屬 Silvery metal	
26 銀色金屬 Silvery metal	
2	2 有綠色塗層的陶瓷 Ceramic with green coating
	8 白色陶瓷 White ceramic
	9 有綠色塗層的陶瓷 Ceramic with green coating
	16 白色陶瓷 White ceramic
	17 有綠色塗層的陶瓷 Ceramic with green coating
	22 有綠色塗層的陶瓷 Ceramic with green coating

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檢測結果 Test Result(s)

批次 Batch	序號 No.	物質名稱 Substance Name(s)	CAS 號 CAS No.	EC 號 EC No.	濃度 Concentration (%)		報告 檢出限 Report Limit
					1	2	
I	1	蒽 Anthracene	120-12-7	204-371-1	/	N.D.	0.005%
I	2	4,4'-二氨基二苯基甲烷 4,4'-Diaminodiphenylmethane	101-77-9	202-974-4	/	N.D.	0.005%
I	3	鄰苯二甲酸二丁酯 Dibutyl phthalate(DBP)	84-74-2	201-557-4	/	N.D.	0.005%
I	4	二氧化鈷 Cobalt dichloride*	7646-79-9	231-589-4	N.D.	N.D.	0.01%
I	5	五氧化二砷 Diarsenic pentaoxide*	1303-28-2	215-116-9	N.D.	N.D.	0.01%
I	6	三氧化二砷 Diarsenic trioxide*	1327-53-3	215-481-4	N.D.	N.D.	0.01%
I	7	重鉻酸鈉 Sodium dichromate*	7789-12-0 / 10588-01-9	234-190-3	N.D.	N.D.	0.01%
I	8	二甲苯麝香 Musk xylene	81-15-2	201-329-4	/	N.D.	0.005%
I	9	鄰苯二甲酸二(2-乙基己基)酯 Bis(2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0	/	N.D.	0.005%
I	10	六溴環十二烷 Hexabromocyclododecane (HBCDD)	25637-99-4/ 3194-55-6	247-148-4/ 221-695-9	/	N.D.	0.005%
I	11	短鏈氯化石蠟 Short Chain Chlorinated Paraffins(SCCPs)	85535-84-8	287-476-5	/	N.D.	0.01%
I	12	三丁基氧化錫 Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	/	N.D.	0.005%
I	13	砷酸氫鉛 Lead hydrogen arsenate*	7784-40-9	232-064-2	N.D.	N.D.	0.01%
I	14	鄰苯二甲酸丁基苄酯 Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	/	N.D.	0.005%
I	15	三乙基砷酸酯 Triethyl arsenate*	15606-95-8	427-700-2	N.D.	N.D.	0.01%
II	16	①蒽油 Anthracene oil	90640-80-5	292-602-7	/	N.D.	0.05%
II	17	①蒽油,蒽糊,輕油 Anthracene oil, anthracene paste, distn. Lights *****	91995-17-4	295-278-5	/	N.D.	0.05%
II	18	①蒽油,蒽糊,蒽餾分 Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	/	N.D.	0.05%

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					1	2	
II	19	^① 蒽油,含蒽量少 Anthracene oil, anthracene-low	90640-82-7	292-604-8	/	N.D.	0.05%
II	20	^① 蒽油,蒽糊 Anthracene oil, anthracene paste	90640-81-6	292-603-2	/	N.D.	0.05%
II	21	^① 煤焦油瀝青,高溫 Coal tar pitch, high temperature	65996-93-2	266-028-2	/	N.D.	0.05%
II	22	丙烯醯胺 Acrylamide	79-06-1	201-173-7	/	N.D.	0.01%
II	23	2,4-二硝基甲苯 2,4-Dinitrotoluene	121-14-2	204-450-0	/	N.D.	0.01%
II	24	鄰苯二甲酸二異丁酯 Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	/	N.D.	0.005%
II	25	^② 鉻酸鉛 Lead chromate	7758-97-6	231-846-0	N.D.	N.D.	0.05%
II	26	^② 鉬鉻紅(C.I.顏料紅 104) Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	N.D.	N.D.	0.05%
II	27	^② 鉛鉻黃(C.I.顏料黃 34) Lead sulfochromate yellow(C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	N.D.	N.D.	0.05%
II	28	磷酸三(2-氯乙基)酯 Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	/	N.D.	0.01%
III	29	三氯乙烯 Trichloroethylene	79-01-6	201-167-4	/	N.D.	0.005%
III	30	^③ 硼酸 Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4	N.D.	N.D.	0.01%
III	31	^③ 四硼酸鈉, 無水 Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	215-540-4	N.D.	N.D.	0.01%
III	32	^③ 四硼酸鈉, 水合物 Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	235-541-3	N.D.	N.D.	0.01%
III	33	鉻酸鈉 Sodium chromate*	7775-11-3	231-889-5	N.D.	N.D.	0.01%
III	34	鉻酸鉀 Potassium chromate*	7789-00-6	232-140-5	N.D.	N.D.	0.01%
III	35	重鉻酸銨 Ammonium dichromate*	7789-09-5	232-143-1	N.D.	N.D.	0.01%

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					1	2	
III	36	重鉻酸鉀 Potassium dichromate*	7778-50-9	231-906-6	N.D.	N.D.	0.01%
IV	37	硫酸鈷 Cobalt(II) sulphate*	10124-43-3	233-334-2	N.D.	N.D.	0.01%
IV	38	硝酸鈷 Cobalt(II) dinitrate*	10141-05-6	233-402-1	N.D.	N.D.	0.01%
IV	39	碳酸鈷 Cobalt(II) carbonate*	513-79-1	208-169-4	N.D.	N.D.	0.01%
IV	40	醋酸鈷 Cobalt(II) diacetate*	71-48-7	200-755-8	N.D.	N.D.	0.01%
IV	41	乙二醇單甲醚 2-Methoxyethanol	109-86-4	203-713-7	/	N.D.	0.005%
IV	42	乙二醇單乙醚 2-Ethoxyethanol	110-80-5	203-804-1	/	N.D.	0.005%
IV	43	三氧化鉻 Chromium trioxide*	1333-82-0	215-607-8	N.D.	N.D.	0.01%
IV	44	^① 從三氧化鉻產生的酸類以及它們的齊聚物：鉻酸、重鉻酸、鉻酸和重鉻酸的齊聚物 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	N.D.	N.D.	0.01%
V	45	乙二醇乙醚乙酸酯 2-ethoxyethyl acetate	111-15-9	203-839-2	/	N.D.	0.01%
V	46	鉻酸鋇 Strontium chromate*	7789-06-2	232-142-6	N.D.	N.D.	0.01%
V	47	^① 1,2-苯二酸-二(C7-11 支鏈與直鏈)烷基(醇)酯 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	/	N.D.	0.01%
V	48	肼 Hydrazine	7803-57-8 302-01-2	206-114-9	/	N.D.	0.01%
V	49	N-甲基吡咯烷酮 1-methyl-2-pyrrolidone	872-50-4	212-828-1	/	N.D.	0.01%
V	50	1, 2, 3-三氯丙烷 1,2,3-trichloropropane	96-18-4	202-486-1	/	N.D.	0.01%

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					1	2	
V	51	^① 鄰苯二甲酸二C6-8支鏈烷基 酯 (C7富集) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	/	N.D.	0.01%
VI	52	鉻酸鉻 Dichromium tris(chromate)*	24613-89-6	246-356-2	N.D.	N.D.	0.01%
VI	53	氫氧化鉻酸鋅鉀 Potassium hydroxyoctaoxodizincatedichro mate*	11103-86-9	234-329-8	N.D.	N.D.	0.01%
VI	54	氫氧化鉻酸鋅 Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	N.D.	N.D.	0.01%
VI	55	^② 矽酸鋁耐火陶瓷纖維 Aluminosilicate Refractory Ceramic Fibres (RCF) **	-	-	N.D.	N.D.	0.05%
VI	56	^② 氧化鋯矽酸鋁耐火陶瓷纖維 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	-	-	N.D.	N.D.	0.05%
VI	57	^① 甲醛苯胺共聚物 Formaldehyde, oligomeric reaction products with aniline (technical MDA) [▲]	25214-70-4	500-036-1	/	N.D.	0.01%
VI	58	鄰苯二甲酸二甲氧基乙酯 Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	/	N.D.	0.005%
VI	59	2-甲氧基苯胺(鄰甲氧基苯胺) 2-Methoxyaniline (o-Anisidine)	90-04-0	201-963-1	/	N.D.	0.005%
VI	60	4-(1,1,3,3-四甲基丁基)苯酚 (別名：對特辛基苯酚) 4-(1,1,3,3-tetramethylbutyl) phenol (4-tert-Octylphenol)	140-66-9	205-426-2	/	N.D.	0.005%
VI	61	1,2-二氯乙烷 1,2-Dichloroethane	107-06-2	203-458-1	/	N.D.	0.005%

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					1	2	
VI	62	雙(2-甲氧基乙基)醚 (別名：二乙二醇二甲醚) Bis(2-methoxyethyl) ether	111-96-6	203-924-4	/	N.D.	0.005%
VI	63	砷酸 Arsenic acid*	7778-39-4	231-901-9	N.D.	N.D.	0.01%
VI	64	砷酸鈣 Calcium arsenate*	7778-44-1	231-904-5	N.D.	N.D.	0.01%
VI	65	砷酸鉛 Trilead diarsenate*	3687-31-8	222-979-5	N.D.	N.D.	0.01%
VI	66	N,N-二甲基乙醯胺 N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	/	N.D.	0.005%
VI	67	4,4'-亞甲基雙(2-氯苯胺) 2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	/	N.D.	0.005%
VI	68	酞酸 Phenolphthalein	77-09-8	201-004-7	/	N.D.	0.005%
VI	69	疊氮化鉛 Lead diazide*	13424-46-9	236-542-1	N.D.	N.D.	0.01%
VI	70	2,4,6-三硝基間苯二酚鉛 (別名：收斂酸鉛) Lead 2,4,6-trinitro-m-phenylene dioxide (Lead styphnate)*	15245-44-0	239-290-0	N.D.	N.D.	0.01%
VI	71	苦味酸鉛 Lead dipicrate*	6477-64-1	229-335-2	N.D.	N.D.	0.01%
VII	72	1,2-二(2-甲氧基乙氧基)乙烷 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	/	N.D.	0.01%
VII	73	乙二醇二甲醚 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	/	N.D.	0.01%
VII	74	³ 三氧化二硼 Diboron trioxide	1303-86-2	215-125-8	N.D.	N.D.	0.01%
VII	75	甲醯胺 Formamide	75-12-7	200-842-0	/	N.D.	0.01%
VII	76	甲基磺酸鉛 Lead(II) bis methanesulfonate*	17570-76-2	401-750-5	N.D.	N.D.	0.01%
VII	77	異氰尿酸三縮水甘油脂 TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	/	N.D.	0.01%

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					1	2	
VII	78	異氰脲酸 β-三縮水甘油酯 β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5- triazine-2,4,6-(1H,3H,5H)- trione)	59653-74-6	423-400-0	/	N.D.	0.01%
VII	79	4,4'-二(N,N-二甲氨基)二苯甲 酮(米氏酮) 4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	/	N.D.	0.01%
VII	80	4,4'-(對二甲氨基)二苯基甲烷 (米氏城) N,N,N',N'-tetramethyl-4,4'-meth ylenedianiline (Michler's base)	101-61-1	202-959-2	/	N.D.	0.01%
VII	81	C.I. 鹼性紫 3 [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5- dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)***	548-62-9	208-953-6	/	N.D.	0.01%
VII	82	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)***	2580-56-5	219-943-6	/	N.D.	0.01%
VII	83	C.I. 溶劑藍 4 α,α-Bis[4-(dimethylamino) phenyl]-4(phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)***	6786-83-0	229-851-8	/	N.D.	0.01%
VII	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	561-41-1	209-218-2	/	N.D.	0.01%

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					1	2	
VIII	85	十溴二苯醚 Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	/	N.D.	0.05%
VIII	86	^① 4-壬基酚, 分支或線性的壬基酚, 包括含有 9 個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支 9 個碳烷基鏈的 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]	-	-	/	N.D.	0.05%
VIII	87	偶氮二甲醯胺 Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	/	N.D.	0.05%
VIII	88	對特辛基苯酚乙氧基醚 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	/	N.D.	0.05%
VIII	89	全氟十一烷酸 Henicosafuoroundecanoic acid	2058-94-8	218-165-4	/	N.D.	0.05%
VIII	90	全氟十三酸 Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	/	N.D.	0.05%

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批次 Batch	序號 No.	物質名稱 Substance Name(s)	CAS 號 CAS No.	EC 號 EC No.	濃度 Concentration (%)		報告 檢出限 Report Limit
					1	2	
VIII	91	六氫鄰苯二甲酸酐, 順式-六氫鄰苯二甲酸酐, 反式-六氫鄰苯二甲酸酐 Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxy lic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	/	N.D.	0.05%
VIII	92	甲基六氫苯酐, 4-甲基六氫苯酐, 1-甲基六氫化鄰苯二甲酸酐, 3-甲基六氫苯二甲酯酐 Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	/	N.D.	0.05%
VIII	93	全氟十四酸 Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	/	N.D.	0.05%
VIII	94	鄰苯二甲酸二異戊酯 Diisopentylphthalate(DIPP)	605-50-5	210-088-4	/	N.D.	0.005%
VIII	95	^① 支鏈和直鏈 1,2-苯二羧二戊酯 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	/	N.D.	0.01%
VIII	96	鄰苯二甲酸正戊基異戊基酯 N-pentyl-isopentylphthalate	776297-69- 9	-	/	N.D.	0.005%
VIII	97	甲氧基乙酸 Methoxyacetic acid	625-45-6	210-894-6	/	N.D.	0.05%
VIII	98	全氟十二烷酸 Tricosafuorododecanoic acid	307-55-1	206-203-2	/	N.D.	0.05%

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					1	2	
VIII	99	乙二醇二乙醚 1,2-Diethoxyethane	629-14-1	211-076-1	/	N.D.	0.05%
VIII	100	3-乙基-2-甲基-2-(3-甲基丁基) 噁唑烷 3-ethyl-2-methyl-2- (3-methylbutyl)-1, 3-oxazolidine	143860-04- 2	421-150-7	/	N.D.	0.05%
VIII	101	2,4-二氨基甲苯 4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	/	N.D.	0.05%
VIII	102	N-甲基乙醯胺 N-methylacetamide	79-16-3	201-182-6	/	N.D.	0.05%
VIII	103	氧化鉛與硫酸鉛的複合物 Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	N.D.	N.D.	0.01%
VIII	104	4-氨基聯苯 Biphenyl-4-ylamine	92-67-1	202-177-1	/	N.D.	0.05%
VIII	105	地樂酚 Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	/	N.D.	0.05%
VIII	106	雙(十八酸基)二氧代三鉛 Dioxobis(stearato)trilead*	12578-12-0	235-702-8	N.D.	N.D.	0.01%
VIII	107	硝酸鉛 Lead dinitrate*	10099-74-8	233-245-9	N.D.	N.D.	0.01%
VIII	108	三城式硫酸鉛 Tetralead trioxide sulphate*	12202-17-4	235-380-9	N.D.	N.D.	0.01%
VIII	109	氧化鉛 Lead monoxide (lead oxide)*	1317-36-8	215-267-0	N.D.	N.D.	0.01%
VIII	110	鈦酸鉛 Lead titanium trioxide*	12060-00-3	235-038-9	N.D.	N.D.	0.01%
VIII	111	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	/	N.D.	0.05%
VIII	112	城式乙酸鉛 Acetic acid, lead salt, basic*	51404-69-4	257-175-3	N.D.	N.D.	0.01%
VIII	113	硫酸二甲酯 Dimethyl sulphate	77-78-1	201-058-1	/	N.D.	0.05%
VIII	114	呋喃 Furan	110-00-9	203-727-3	/	N.D.	0.05%
VIII	115	顏料黃 41 Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	N.D.	N.D.	0.01%
VIII	116	四乙基鉛 Tetraethyllead*	78-00-2	201-075-4	N.D.	N.D.	0.01%

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					1	2	
VIII	117	二鹽基鄰苯二甲酸鉛 [Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	N.D.	N.D.	0.01%
VIII	118	硫酸二乙酯 Diethyl sulphate	64-67-5	200-589-6	/	N.D.	0.05%
VIII	119	氨基氰鉛鹽 Lead cyanamidate*	20837-86-9	244-073-9	N.D.	N.D.	0.01%
VIII	120	摻雜鉛的矽酸鋇 Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	N.D.	N.D.	0.01%
VIII	121	磷酸氧化鉛 Trilead dioxide phosphonate*	12141-20-7	235-252-2	N.D.	N.D.	0.01%
VIII	122	鄰甲基苯胺 <i>o</i> -Toluidine	95-53-4	202-429-0	/	N.D.	0.05%
VIII	123	鄰氨基偶氮甲苯 <i>o</i> -aminoazotoluene	97-56-3	202-591-2	/	N.D.	0.05%
VIII	124	4-對氨基偶氮苯 4-aminoazobenzene	60-09-3	200-453-6	/	N.D.	0.05%
VIII	125	6-甲氧基-間甲苯胺 6-methoxy- <i>m</i> -toluidine (<i>p</i> -cresidine)	120-71-8	204-419-1	/	N.D.	0.05%
VIII	126	二丁基二氯化錫 Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	/	N.D.	0.05%
VIII	127	鈦酸鉛鉛 Lead titanium zirconium oxide*	12626-81-2	235-727-4	N.D.	N.D.	0.01%
VIII	128	環氧丙烷 Methyloxirane (Propylene oxide)	75-56-9	200-879-2	/	N.D.	0.05%
VIII	129	1-溴代正丙烷 1-bromopropane (<i>n</i> -propyl bromide)	106-94-5	203-445-0	/	N.D.	0.05%
VIII	130	碱式碳酸鉛 Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	N.D.	N.D.	0.01%
VIII	131	C16-18-脂肪酸鉛鹽 Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	N.D.	N.D.	0.01%
VIII	132	四氧化三鉛 Orange lead (lead tetroxide)*	1314-41-6	215-235-6	N.D.	N.D.	0.01%
VIII	133	二碱式亞硫酸鉛(II) Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	N.D.	N.D.	0.01%

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					1	2	
VIII	134	4,4'-二氨基二苯醚 4,4'-oxydianiline and its salts	101-80-4	202-977-0	/	N.D.	0.05%
VIII	135	碱式硫酸鉛 Lead oxide sulfate*	12036-76-9	234-853-7	N.D.	N.D.	0.01%
VIII	136	四氟硼酸鉛 Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	N.D.	N.D.	0.01%
VIII	137	矽酸鉛 Silicic acid, lead salt*	11120-22-2	234-363-3	N.D.	N.D.	0.01%
VIII	138	N,N-二甲基甲醯胺 N,N-dimethylformamide	68-12-2	200-679-5	/	N.D.	0.05%
IX	139	鎘 Cadmium	7440-43-9	231-152-8	N.D.	N.D.	0.01%
IX	140	氧化鎘 Cadmium oxide*	1306-19-0	215-146-2	N.D.	N.D.	0.01%
IX	141	鄰苯二甲酸二戊酯 Dipentyl phthalate (DPP)	131-18-0	205-017-9	/	N.D.	0.005%
IX	142	^① 乙氧基化的支鏈和直鏈的 4-壬基酚（直鏈和/或支鏈的具有 9 個碳原子的烷基鏈共價鍵合在 4 位的乙氧基酚，囊括了 UVCB 和定義明確的物質，聚合物及同系物，其中包括任何單獨的異構體和/或它們的組合）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]	-	-	/	N.D.	0.05%
IX	143	全氟辛酸銨 Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	/	N.D.	0.01%
IX	144	全氟辛酸 Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	/	N.D.	0.01%
X	145	^① 磷酸三(二甲苯)酯 Trixylyl phosphate	25155-23-1	246-677-8	/	N.D.	0.01%

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					1	2	
X	146	C.I.直接黑 38 Disodium 4-amino-3- [[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo]-5-hydr oxy-6- (phenylazo)naphthalene-2,7- disulphonate (C.I. Direct Black 38)***	1937-37-7	217-710-3	/	N.D.	0.01%
X	147	鄰苯二甲酸二己酯 Dihexyl phthalate	84-75-3	201-559-5	/	N.D.	0.005%
X	148	硫化鎘 Cadmium sulphide*	1306-23-6	215-147-8	N.D.	N.D.	0.01%
X	149	C.I.直接紅 28 Disodium 3,3'-[[1,1'-biphenyl]- 4,4'-diylbis(azo)]bis(4- aminonaphthalene- 1-sulphonate) (C.I. Direct Red 28)***	573-58-0	209-358-4	/	N.D.	0.01%
X	150	醋酸鉛(II) Lead di(acetate)*	301-04-2	206-104-4	N.D.	N.D.	0.01%
X	151	1,2-亞乙基硫脲 Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9	/	N.D.	0.01%
XI	152	^① 鄰苯二甲酸二己酯, 直鏈和支 鏈 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	/	N.D.	0.01%
XI	153	氯化鎘 Cadmium chloride *	10108-64-2	233-296-7	N.D.	N.D.	0.01%
XI	154	^② 過硼酸鈉, 水合物; 過硼酸鈉 鹽 Sodium perborate; perboric acid, sodium salt *****	-	239-172-9, 234-390-0	N.D.	N.D.	0.01%
XI	155	^③ 過硼酸鈉, 無水 Sodium peroxometaborate *****	7632-04-4	231-556-4	N.D.	N.D.	0.01%
XII	156	2-(2H-苯並三唑-2-基)-4,6-二叔 戊基苯酚 2-(2H-Benzotriazol-2-yl)- 4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	/	N.D.	0.01%

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					1	2	
XII	157	2-(2'-羥基-3',5'-二叔丁基苯基)- 苯並三唑 2-Benzotriazol-2-yl-4,6- di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	/	N.D.	0.01%
XII	158	二正辛基-雙(巰乙酸2-乙基己 酯)錫 2-ethylhexyl 10-ethyl-4,4-dioctyl-7- oxo-8-oxa-3,5-dithia-4- stannatetradecanoate (DOTE)*	15571-58-1	239-622-4	/	N.D.	0.05%
XII	159	氟化鎘 Cadmium fluoride*	7790-79-6	232-222-0	N.D.	N.D.	0.01%
XII	160	硫酸鎘 Cadmium sulphate*	10124-36-4; 31119-53-6	233-331-6	N.D.	N.D.	0.01%
XII	161	①二正辛基-雙(巰乙酸2-乙基己 酯)錫(DOTE)和三(2-乙基己基 巰基乙酸)辛錫(MOTE)的反應 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)*	-	-	/	N.D.	0.05%
XIII	162	①1,2-苯二羧酸, 二-C6-10-烷基 酯; (癸基, 己基, 辛基) 酯 與1,2-苯二甲酸的複合物, 其鄰 苯二甲酸二己酯含量 \geq 0.3% (EC No. 201-559-5) 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)	68515-51-5, 68648-93-1	271-094-0, 272-013-1	/	N.D.	0.05%

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					1	2	
XIII	163	①5-仲丁基-2-(2,4-二甲基環己-3-烯-1-基)-5-甲基-1,3-二惡烷 [1]，5-二級丁基-2-(4,6-二甲基環己-3-烯-1-基)-5-甲基-1,3-二惡烷 [2] [任何 [1] 和 [2] 或者其任意組合的單獨異構體或其任何組合] (卡拉花醛及其異構體以及它們的混合物) 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]	-	-	/	N.D.	0.05%
XIV	164	硝基苯 Nitrobenzene	98-95-3	202-716-0	/	N.D.	0.01%
XIV	165	2,4-二-叔丁基-6-(5-氯-2H-苯並三唑-2-基)苯酚 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	/	N.D.	0.01%
XIV	166	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)	36437-37-3	253-037-1	/	N.D.	0.01%
XIV	167	1,3-丙烷磺內酯 1,3-propanesultone	1120-71-4	214-317-9	/	N.D.	0.01%
XIV	168	全氟壬酸及其鈉和銨鹽 Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	/	N.D.	0.01%

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檢測依據 Test Method:

參考 US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), BS EN 14582:2007 進行樣品預處理。

Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), BS EN 14582:2007 for sample pretreatment.

採用 ICP-OES, UV-Vis, IC, HPLC, GC-MS, GC-MS(NCI), Headspace-GCMS 及 LC-MS-MS 分析。

Analyzed by ICP-OES, UV-Vis, IC, HPLC, GC-MS, GC-MS(NCI), Headspace-GCMS and LC-MS-MS.

測試樣品/部位描述 Tested Sample/Part Description

1. 混測,金屬 Mixed test, metal
2. 混測,非金屬 Mixed test, non-metal

注釋 Note:

1. w/w % = 重量百分比 weight by weight; 0.1% = 1000mg/kg = 1000ppm
2. N.D. = 未檢出 Not Detected (小於報告檢出限<report limit)
3. *: 該物質的濃度值是由物質中的特徵元素測試結果換算而來。 Concentration value of the substance by the conversion from the test results of certain elements.

三丁基氧化錫(TBTO)、二正辛基-雙(巰乙酸 2-乙基己酯)錫(DOTE)、二正辛基-雙(巰乙酸 2-乙基己酯)錫(DOTE)和三(2-乙基己基巰基乙酸)辛錫(MOTE)的反應物料的濃度值是由其特定化合物(三丁基錫(TBT)、二辛基錫(DOT)、單辛基錫(MOT))的結果換算而來。

Concentration value of Bis(tributyltin)oxide(TBTO), 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE), 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) by the conversion from the test results of certain compounds (Tributyl Tins(TBT), Dioctyl Tins(DOT), Monoctyl Tins(MOT)).

4. **: 在化學物質及其混合物的分類，標記與包裝法規，即 CLP 法規(法規(EC)No 1272/2008)的附錄 VI 中，索引號 650-017-00-8 適用於所有的耐火陶瓷纖維材料。 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).
5. ***: C.I.:顏料索引號 Colour Index
6. ****: 蒸餾所分離出來的輕油部分 Light fractions from distillation

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7. *****: 四硼酸鈉，無水和四硼酸鈉，水合物的濃度均由四硼酸鈉濃度表示，沒有考慮結晶水。過硼酸鈉，水合物；過硼酸鈉鹽和過硼酸鈉，無水的濃度均由過硼酸鈉濃度表示，沒有考慮結晶水。Concentration value of Disodium tetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodium tetraborate, with no consider of the hydrate. Concentration value of Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is evaluated by Sodium perborate, with no consider of the hydrate.
8. ▲: 甲醛苯胺共聚物的濃度值是由其特定化合物(2,4-二氨基二苯甲烷、4,4'-二氨基二苯基甲烷、2,6-二氨基二苯基甲烷)的結果換算而來。Concentration value of Formaldehyde, oligomeric reaction products with aniline (technical MDA) by the conversion from the test results of certain compounds (2,4-Diaminodiphenylmethane, 4,4' - Diaminodiphenylmethane, 2,6-Diaminodiphenylmethane).
9. ①: 由於這些物質是 UVCB 物質(未知成分或可變成分的，複雜反應物或生物材料的物質)，由各種不同的成分組成，所以這些物質的測試結果是由選定的具有代表性的物質的主要組成成分的測試結果換算而來的。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.
10. ②: 由於此物質含有多種物質，測試結果是基於此物質中最具有代表性的主要組成化合物的含量，其主要造成化合物的測試結果是基於特徵元素的濃度換算而來。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.
11. ③: 硼酸；四硼酸鈉，無水；四硼酸鈉，水合物；三氧化二硼；過硼酸鈉，水合物；過硼酸鈉鹽和過硼酸鈉，無水的濃度值是由物質中的特徵元素測試結果換算而來，並用適當溶劑萃取進行確認，同時建議客戶檢查化學配方表進一步確認是否含有上述化合物。Concentration value of Boric acid; Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide, hydrate; Diboron trioxide; Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is calculated by the conversion from the test results of certain elements and confirmed by appropriate solvent extraction, meanwhile the book of materials is suggested to be checked for further confirmation.
12. 根據客戶要求，對樣品進行混合測試，測試結果不代表混合測試樣品中任何一種單一材質的含量。As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.

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附加信息 Appendix:

1. 根據歐盟 REACH 法規（編號 1907/2006）第 33 條款之規定，物品類產品如果含有候選清單上的高度關注物質且在物品中的質量百分比超過 0.1% 時，物品供應方需履行相關信息傳遞義務：

Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

- 1) 物品供應方應提供給接收方關於產品的足夠信息以確保物品的安全使用，至少需提供所含高度關注物質的名稱。Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
 - 2) 應消費者請求，物品供應方應在 45 天內免費提供關於產品的足夠信息以確保物品的安全使用，至少需提供所含高度關注物質的名稱。On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. 根據歐盟 REACH 法規（編號 1907/2006）第 31 條款及附件 2 之規定，提供高度關注物質的物質類產品供應方，應免費提供接收方該物質的安全資料表。The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
 3. 根據歐盟 REACH 法規（編號 1907/2006）第 31、32 條款及附件 2 之規定，提供含有高度關注物質的混合物產品供應方需傳遞相關信息：

The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.

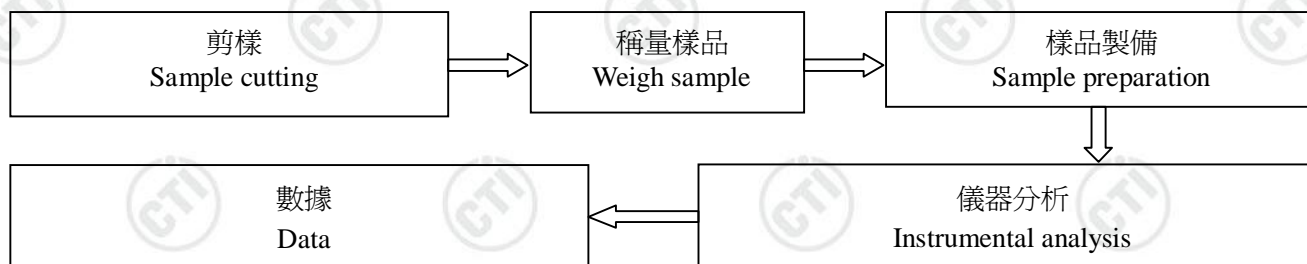
- 1) 如果混合物產品按照 1999/45/EC 被判定為危險品時，供應方應免費提供產品的安全資料表。Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
- 2) 如果混合物產品按照 1999/45/EC 判定並非危險品，但是任一高度關注物質在非氣體混合物中質量分數超過 0.1% 或在氣體混合物中體積分數超過 0.2%，供應方也應免費提供產品的安全資料表。Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures or $\geq 0.2\%$ by volume for gaseous mixtures.

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樣品圖片

Photo(s) of the sample(s)



成品 Final Product



成品 Final Product



成品 Final Product

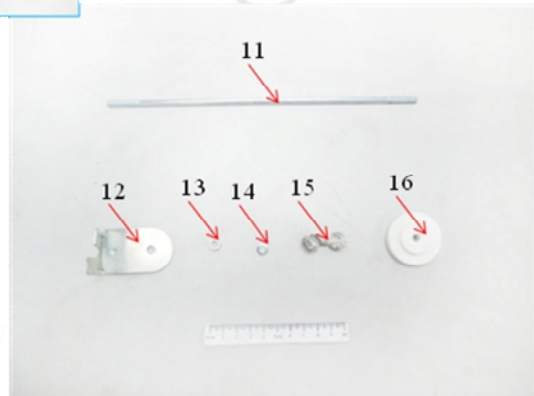
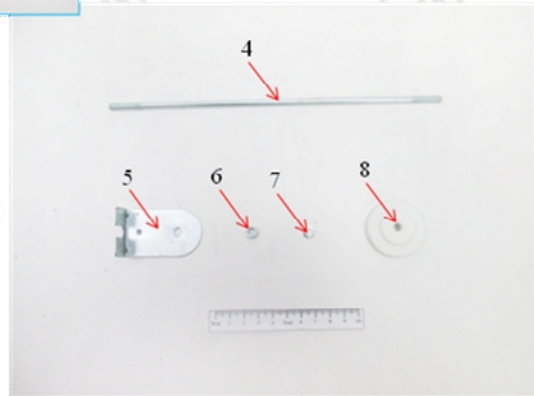
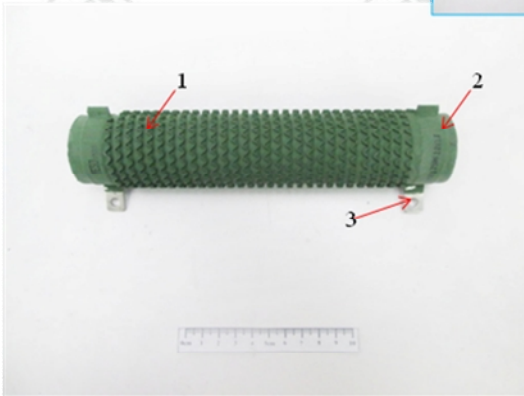


成品 Final Product

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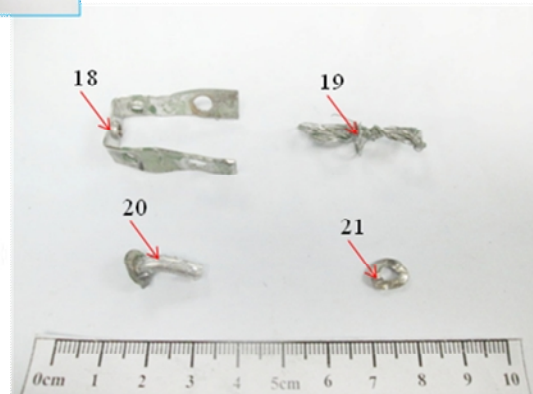
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*** End of Report ***

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