

檢測報告 Test Report

報告編號 ECL01G034347001E
Report No. ECL01G034347001E

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申請單位 長春石油化學股份有限公司
Applicant CHANG CHUN PETROCHEMICAL CO.,LTD
地 址 苗 栗 市 福 安 里 福 星 2 4 6 號
Address NO. 246, FU SING FUAN LI..MIAOLI 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

樣品信息 Sample information	第一次測試 The first test	第二次測試 The second test
樣品名稱 Sample Name	聚乙 烯 醇 Polyvinyl Alcohol(PVA)	聚乙 烯 醇 Polyvinyl Alcohol(PVA)
樣品接收日期 Sample Received Date	2014.05.21 May.21,2014	2014.12.29 Dec. 29, 2014
樣品檢測日期 Testing Period	2014.05.21-2014.05.26 May.21,2014 to May.26,2014	2014.12.29-2015.01.06 Dec. 29, 2014 to Jan. 6, 2015

檢測要求

Test Requested

根據客戶要求, 參照法規(EC) No 1907/2006(REACH), 對所提交樣品中 161 種高關注物質(SVHC)進行篩選測試。
As specified by client, to screen the 161 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

Test Method/Test Result(s)

請參見下頁。
Please refer to the following page(s).

摘要

Summary

根據分析結果, 所提交樣品中 161 種 SVHC 濃度均小於 0.1%(w/w)。
According to the analytical results, concentrations of 161 SVHC substances are all less than 0.1%(w/w) in the submitted sample(s).

主 檢
Tested by

Tang shi hui

審 核
Reviewed by

Xu Jing

批 准
Approved by

Su Hongwei

日 期
Date

2015.01.06

Su Hongwei

Senior Laboratory Manager



華測檢測技術股份有限公司上海分公司
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檢測結果 Test Result(s)

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
				第一次測試 The first test	第二次測試 The second test	
1	蒽 Anthracene	120-12-7	204-371-1	N.D.	/	0.005%
2	4,4'-二氨基二苯基甲烷 4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	N.D.	/	0.005%
3	鄰苯二甲酸二丁酯 Dibutyl phthalate(DBP)	84-74-2	201-557-4	N.D.	/	0.005%
4	二氯化鈷 Cobalt dichloride*	7646-79-9	231-589-4	N.D.	/	0.01%
5	五氧化二砷 Diarsenic pentaoxide*	1303-28-2	215-116-9	N.D.	/	0.01%
6	三氧化二砷 Diarsenic trioxide*	1327-53-3	215-481-4	N.D.	/	0.01%
7	重鉻酸鈉 Sodium dichromate*	7789-12-0 / 10588-01-9	234-190-3	N.D.	/	0.01%
8	二甲苯麝香 Musk xylene	81-15-2	201-329-4	N.D.	/	0.005%
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%
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%
11	短鏈氯化石蠟 Short Chain Chlorinated Paraffins(SCCPs)	85535-84-8	287-476-5	N.D.	/	0.01%
12	三丁基氧化錫 Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	N.D.	/	0.005%
13	砷酸氫鉛 Lead hydrogen arsenate*	7784-40-9	232-064-2	N.D.	/	0.01%
14	鄰苯二甲酸丁基苄酯 Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	N.D.	/	0.005%
15	三乙基砷酸酯 Triethyl arsenate*	15606-95-8	427-700-2	N.D.	/	0.01%
16	①蒽油 Anthracene oil	90640-80-5	292-602-7	N.D.	/	0.05%
17	①蒽油, 蒽糊, 輕油 Anthracene oil, anthracene paste, distn. Lights *****	91995-17-4	295-278-5	N.D.	/	0.05%
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%
19	①蒽油, 含量少 Anthracene oil, anthracene-low	90640-82-7	292-604-8	N.D.	/	0.05%

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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
				第一次測試 The first test	第二次測試 The second test	
20	^① 蒽油, 蒽糊 Anthracene oil, anthracene paste	90640-81-6	292-603-2	N.D.	/	0.05%
21	^① 煤焦油瀝青, 高溫 Coal tar pitch, high temperature	65996-93-2	266-028-2	N.D.	/	0.05%
22	丙烯醯胺 Acrylamide	79-06-1	201-173-7	N.D.	/	0.01%
23	2,4-二硝基甲苯 2,4-Dinitrotoluene	121-14-2	204-450-0	N.D.	/	0.01%
24	鄰苯二甲酸二異丁酯 Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	N.D.	/	0.005%
25	^② 鉻酸鉛 Lead chromate	7758-97-6	231-846-0	N.D.	/	0.05%
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.	/	0.05%
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.	/	0.05%
28	磷酸三(2-氯乙基)酯 Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	N.D.	/	0.01%
29	三氯乙烯 Trichloroethylene	79-01-6	201-167-4	N.D.	/	0.005%
30	^③ 硼酸 Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4	N.D.	/	0.01%
31	^④ 四硼酸鈉, 無水 Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	215-540-4	N.D.	/	0.01%
32	^④ 四硼酸鈉, 水合物 Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	235-541-3	N.D.	/	0.01%
33	鉻酸鈉 Sodium chromate*	7775-11-3	231-889-5	N.D.	/	0.01%
34	鉻酸鉀 Potassium chromate*	7789-00-6	232-140-5	N.D.	/	0.01%
35	重鉻酸銨 Ammonium dichromate*	7789-09-5	232-143-1	N.D.	/	0.01%
36	重鉻酸鉀 Potassium dichromate*	7778-50-9	231-906-6	N.D.	/	0.01%
37	硫酸鈷 Cobalt(II) sulphate*	10124-43-3	233-334-2	N.D.	/	0.01%
38	硝酸鈷 Cobalt(II) dinitrate*	10141-05-6	233-402-1	N.D.	/	0.01%
39	碳酸鈷 Cobalt(II) carbonate*	513-79-1	208-169-4	N.D.	/	0.01%

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40	醋酸鈷 Cobalt(II) diacetate*	71-48-7	200-755-8	N.D.	/	0.01%
41	乙二醇單甲醚 2-Methoxyethanol	109-86-4	203-713-7	N.D.	/	0.005%
42	乙二醇單乙醚 2-Ethoxyethanol	110-80-5	203-804-1	N.D.	/	0.005%
43	三氧化鉻 Chromium trioxide*	1333-82-0	215-607-8	N.D.	/	0.01%
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.	/	0.01%
45	乙二醇乙醚乙酸酯 2-ethoxyethyl acetate	111-15-9	203-839-2	N.D.	/	0.01%
46	鉻酸鋇 Strontium chromate*	7789-06-2	232-142-6	N.D.	/	0.01%
47	①1,2-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%
48	水合肼 Hydrazine	7803-57-8 302-01-2	206-114-9	N.D.	/	0.01%
49	N-甲基吡咯烷酮 1-methyl-2-pyrrolidone	872-50-4	212-828-1	N.D.	/	0.01%
50	1,2,3-三氯丙烷 1,2,3-trichloropropane	96-18-4	202-486-1	N.D.	/	0.01%
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%
52	鉻酸鉻 Dichromium tris(chromate)*	24613-89-6	246-356-2	N.D.	/	0.01%
53	氫氧化鉻酸鋅鉀 Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	N.D.	/	0.01%
54	氫氧化鉻酸鋅 Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	N.D.	/	0.01%
55	②矽酸鋁耐火陶瓷纖維 Aluminosilicate Refractory Ceramic Fibres (RCF) **	-	-	N.D.	/	0.05%

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56	®氧化鋯矽酸鋁耐火陶瓷纖維 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	-	-	N.D.	/	0.05%
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%
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%
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%
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%
61	1,2-二氯乙烷 1,2-Dichloroethane	107-06-2	203-458-1	N.D.	/	0.005%
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%
63	砷酸 Arsenic acid*	7778-39-4	231-901-9	N.D.	/	0.01%
64	砷酸鈣 Calcium arsenate*	7778-44-1	231-904-5	N.D.	/	0.01%
65	砷酸鉛 Trilead diarsenate*	3687-31-8	222-979-5	N.D.	/	0.01%
66	N,N-二甲基乙醯胺 N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	N.D.	/	0.005%
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%
68	酚酞 Phenolphthalein	77-09-8	201-004-7	N.D.	/	0.005%
69	疊氮化鉛 Lead diazide*	13424-46-9	236-542-1	N.D.	/	0.01%
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.	/	0.01%
71	苦味酸鉛 Lead dipicrate*	6477-64-1	229-335-2	N.D.	/	0.01%

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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%
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%
74	®三氧化二硼 Diboron trioxide	1303-86-2	215-125-8	N.D.	/	0.01%
75	甲酰胺 Formamide	75-12-7	200-842-0	N.D.	/	0.01%
76	甲基磺酸鉛 Lead(II) bis methanesulfonate*	17570-76-2	401-750-5	N.D.	/	0.01%
77	異氰尿酸三縮水甘油酯 TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-t riazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	N.D.	/	0.01%
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%
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%
80	4,4'-(對二甲氨基)二苯基甲烷 (米氏碱) N,N,N',N'-tetramethyl-4,4'-methylenedi aniline (Michler's base)	101-61-1	202-959-2	N.D.	/	0.01%
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%

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82	C.I.鹼性藍 26 [4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl]methylene]c yclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)***	2580-56-5	219-943-6	N.D.	/	0.01%
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%
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%
85	十溴二苯醚 Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	N.D.	/	0.05%
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%
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%

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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%
89	全氟十一烷酸 Henicosfluoroundecanoic acid	2058-94-8	218-165-4	N.D.	/	0.05%
90	全氟十三酸 Pentacosfluorotridecanoic acid	72629-94-8	276-745-2	N.D.	/	0.05%
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-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	N.D.	/	0.05%
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%
93	全氟十四酸 Heptacosfluorotetradecanoic acid	376-06-7	206-803-4	N.D.	/	0.05%
94	鄰苯二甲酸二異戊酯 Diisopentylphthalate(DIPP)	605-50-5	210-088-4	N.D.	/	0.005%

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95	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%
96	鄰苯二甲酸正戊基異戊基酯 N-pentyl-isopentylphthalate	776297-69-9	-	N.D.	/	0.005%
97	甲氧基乙酸 Methoxyacetic acid	625-45-6	210-894-6	N.D.	/	0.05%
98	全氟十二烷酸 Tricosafuorododecanoic acid	307-55-1	206-203-2	N.D.	/	0.05%
99	乙二醇二乙醚 1,2-Diethoxyethane	629-14-1	211-076-1	N.D.	/	0.05%
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%
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%
102	N-甲基乙醯胺 N-methylacetamide	79-16-3	201-182-6	N.D.	/	0.05%
103	氧化鉛與硫酸鉛的複合物 Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	N.D.	/	0.01%
104	4-氨基聯苯 Biphenyl-4-ylamine	92-67-1	202-177-1	N.D.	/	0.05%
105	地樂酚 Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	N.D.	/	0.05%
106	雙(十八酸基)二氧代三鉛 Dioxobis(stearato)trilead*	12578-12-0	235-702-8	N.D.	/	0.01%
107	硝酸鉛 Lead dinitrate*	10099-74-8	233-245-9	N.D.	/	0.01%
108	三城式硫酸鉛 Tetralead trioxide sulphate*	12202-17-4	235-380-9	N.D.	/	0.01%
109	氧化鉛 Lead monoxide (lead oxide)*	1317-36-8	215-267-0	N.D.	/	0.01%
110	鈦酸鉛 Lead titanium trioxide*	12060-00-3	235-038-9	N.D.	/	0.01%
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%

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				第一次測試 The first test	第二次測試 The second test	
112	城式乙酸鉛 Acetic acid, lead salt, basic*	51404-69-4	257-175-3	N.D.	/	0.01%
113	硫酸二甲酯 Dimethyl sulphate	77-78-1	201-058-1	N.D.	/	0.05%
114	呋喃 Furan	110-00-9	203-727-3	N.D.	/	0.05%
115	顏料黃 41 Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	N.D.	/	0.01%
116	四乙基鉛 Tetraethyllead*	78-00-2	201-075-4	N.D.	/	0.01%
117	二鹽基鄰苯二甲酸鉛 [Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	N.D.	/	0.01%
118	硫酸二乙酯 Diethyl sulphate	64-67-5	200-589-6	N.D.	/	0.05%
119	氨基氰鉛鹽 Lead cyanamidate*	20837-86-9	244-073-9	N.D.	/	0.01%
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.	/	0.01%
121	磷酸氧化鉛 Trilead dioxide phosphonate*	12141-20-7	235-252-2	N.D.	/	0.01%
122	鄰甲基苯胺 o-Toluidine	95-53-4	202-429-0	N.D.	/	0.05%
123	鄰氨基偶氮甲苯 o-aminoazotoluene	97-56-3	202-591-2	N.D.	/	0.05%
124	4-對氨基偶氮苯 4-aminoazobenzene	60-09-3	200-453-6	N.D.	/	0.05%
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%
126	二丁基二氯化錫 Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	N.D.	/	0.05%
127	鈦酸鉛鋇 Lead titanium zirconium oxide*	12626-81-2	235-727-4	N.D.	/	0.01%
128	環氧丙烷 Methyloxirane (Propylene oxide)	75-56-9	200-879-2	N.D.	/	0.05%
129	1-溴代正丙烷 1-bromopropane (<i>n</i> -propyl bromide)	106-94-5	203-445-0	N.D.	/	0.05%
130	城式碳酸鉛 Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	N.D.	/	0.01%

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				第一次測試 The first test	第二次測試 The second test	
131	C16-18-脂肪酸鉛鹽 Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	N.D.	/	0.01%
132	四氧化三鉛 Orange lead (lead tetroxide)*	1314-41-6	215-235-6	N.D.	/	0.01%
133	二碱式亞硫酸鉛(II) Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	N.D.	/	0.01%
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%
135	碱式硫酸鉛 Lead oxide sulfate*	12036-76-9	234-853-7	N.D.	/	0.01%
136	四氟硼酸鉛 Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	N.D.	/	0.01%
137	矽酸鉛 Silicic acid, lead salt*	11120-22-2	234-363-3	N.D.	/	0.01%
138	N,N-二甲基甲醯胺 N,N-dimethylformamide	68-12-2	200-679-5	N.D.	/	0.05%
139	鎘 Cadmium	7440-43-9	231-152-8	N.D.	/	0.01%
140	氧化鎘 Cadmium oxide*	1306-19-0	215-146-2	N.D.	/	0.01%
141	鄰苯二甲酸二戊酯 Dipentyl phthalate (DPP)	131-18-0	205-017-9	N.D.	/	0.005%
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[<i>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</i>]	-	-	N.D.	/	0.05%
143	全氟辛酸銨 Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	N.D.	/	0.01%
144	全氟辛酸 Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	N.D.	/	0.01%

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				第一次測試 The first test	第二次測試 The second test	
145	^① 磷酸三(二甲苯)酯 Trixylyl phosphate	25155-23-1	246-677-8	N.D.	/	0.01%
146	C.I.直接黑 38 Disodium 4-amino-3- [[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6- (phenylazo)naphthalene-2,7- disulphonate (C.I. Direct Black 38)***	1937-37-7	217-710-3	N.D.	/	0.01%
147	鄰苯二甲酸二己酯 Dihexyl phthalate	84-75-3	201-559-5	N.D.	/	0.005%
148	硫化鎘 Cadmium sulphide*	1306-23-6	215-147-8	N.D.	/	0.01%
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%
150	醋酸鉛(II) Lead di(acetate)*	301-04-2	206-104-4	N.D.	/	0.01%
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%
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%
153	氯化鎘 Cadmium chloride *	10108-64-2	233-296-7	N.D.	/	0.01%
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.	/	0.01%
155	^③ 過硼酸鈉, 無水 Sodium peroxometaborate *****	7632-04-4	231-556-4	N.D.	/	0.01%

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				第一次測試 The first test	第二次測試 The second test	
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%
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%
158	二正辛基-雙(巯乙酸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%
159	氟化鎘 Cadmium fluoride*	7790-79-6	232-222-0	/	N.D.	0.01%
160	硫酸鎘 Cadmium sulphate*	10124-36-4; 31119-53-6	233-331-6	/	N.D.	0.01%
161	①二正辛基-雙(巯乙酸2-乙基己酯)錫 (DOTE)和三(2-乙基己基巯基乙酸)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%

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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, Headspace-GCMS 及 LC-MS-MS 分析。

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

樣品信息 Sample information	第一次測試 The first test	第二次測試 The second test
測試樣品/部位描述 Tested Sample/Part Description	白色顆粒 White grain	白色顆粒 White grain

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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 subst the conversion from the test results of certain elements.
三丁基氧化錫(TBTO)、二正辛基-雙(巯乙酸 2-乙基己酯)錫(DOTE)、二正辛基-雙(巯乙酸 2-乙基己酯)錫(DOTE)和三(2-乙基己基巯基乙酸)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
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.

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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. 第一次測試的測試結果引自於報告RHS05G017117001ER1。
The first test result(s) of this report is/are presented in reference to the result(s) that reported in RHS05G017117001ER1.

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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品質百分比超過 0.1%時，物品供應方需履行相關資訊傳遞義務：

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資訊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資訊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資訊：

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.

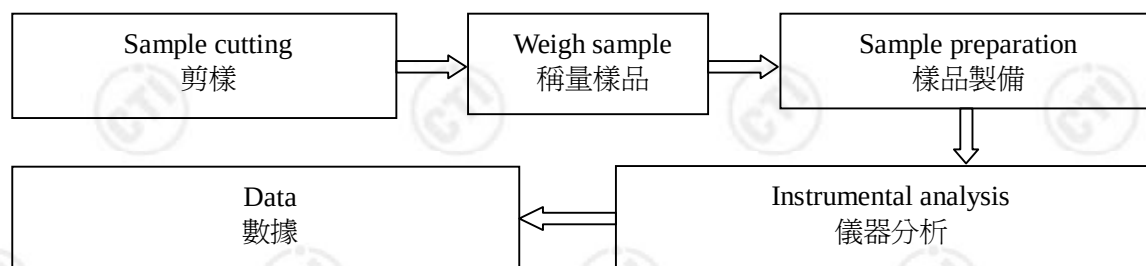
- 1) 如果混合物產品按照 1999/45/EC 被判定為危險品時，供應方應免費提供產品的安全資料表。Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
- 2) 如果混合物產品按照 1999/45/EC 判定並非危險品，但是任一高度關注物質在非氣體混合物中品質分數超過 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 ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures.

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樣品圖片

Photo(s) of the sample(s)



第一次測試 The first test



第二次測試 The second test

*** 報告結束 ***

*** End of Report ***

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