測試報告
(SVHC)

號碼 : CC/2014/90149D　　日期 : 2014/10/08　　頁數 : 1 of 10

顏昌興業有限公司
臺中市豐原區東陽路420號

以下測試樣品係由申請廠商所提供及確認：

送樣廠商	:	顏昌興業有限公司
樣品名稱	:	天然木蠟油
樣品型號	:	WO362
收件日期	:	2014/09/24
測試期間	:	2014/09/24 TO 2014/10/01

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測試需求 : 155項高關注物質篩檢. 高關注物質候選清單是根據歐洲化學總署(ECHA)於2014年06月16日，就關於REACH之Regulation (EC) No 1907/2006的公告。

測試方法 : 請見下一頁.

測試結果 : 請見下一頁.

總　結 : 根據歐洲化學總署及絕大部分歐盟會員國對於成品定義詮釋以及依據指定範圍和分析技術，送測樣品的高關注物質(SVHC)濃度均小於0.1%。

樣張

Edison Chang

Edison Chang / Sr. Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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TWB 4396663

1001

測試報告
(SVHC)

顏昌興業有限公司
臺中市豐原區東陽路420號

測試樣品: 米色液體

測試方法: 參照SGS內部方法RSTS-EE-SVHC-007. 由感應耦合電漿原子發射光譜儀(ICP-AES)、紫外光可見光譜儀(UV-VIS)、氣相層析/質譜儀(GC/MS)、液相層析質譜儀(LC/MS)、氣相層析儀/火焰光度偵測器(GC/FPD)、液相層析/質譜儀/二極體陣列偵測器(LC/MS/DAD)進行分析。

備註:

1. 155項SVHC化學分析，依歐洲化學總署(ECHA)於2014年06月16日所公佈的清單，藉由現有的分析技術進行篩檢。
   請參照: http://echa.europa.eu/web/guest/candidate-list-table
2. 根據Regulation (EC) No 1907/2006 中第7條款第2項之規定，如果物質合乎第57條款之標準以及可依據第59(1)條之規定鑑別，且同時符合下列兩項狀況，任何成品之製造人和進口人應向歐洲化學總署(ECHA)通報：
   (a) 成品中所含物質每年超過1公噸。
   (b) 依重量百分比計算，物質濃度超過0.1%。
3. Regulation (EC) No 1907/2006中第 33 條要求成品供應商，其成品所含物質符合第57條款的標準並依照第59(1)條款確定其濃度大於0.1wt%，應提供成品接受者充份可取得資訊，以確保成品的安全使用(至少包括物質的名稱)。
4. 倘若SVHC超過限值，建議客戶確認含有該SVHC的零件，並要求實驗室進一步的定量分析而取得SVHC的確切濃度。

測試結果

物質名稱	成品濃度 (%)	報告極限值 (%)	分類
蒽 (CAS No.: 120-12-7)	n.d.	0.05	PBT
4,4' - 二氨基二苯甲烷 (CAS No.: 101-77-9)	n.d.	0.05	CC 1B
鄰苯二甲酸二丁酯 (DBP) (CAS No.: 84-74-2)	n.d.	0.05	TRC 1B
鄰苯二甲酸丁苯甲酯 (BBP) (CAS No.: 85-68-7)	n.d.	0.05	TRC 1B
鄰苯二甲酸二 (2-乙基己基)酯 (DEHP) (CAS No.: 117-81-7)	n.d.	0.05	TRC 1B
二甲苯麝香 (CAS No.: 81-15-2)	n.d.	0.05	vPvB
六溴環十二烷及所有主要被辨別出的異構物 (HBCDD) (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	n.d.	0.05	PBT
短鏈氯化石蠟 (CAS No.: 85535-84-8)	n.d.	0.05	PBT
三丁基錫氧化物 (TBTO)*** (CAS No.: 56-35-9)	n.d.	-	PBT
二氧化鈷 (CAS No.: 7646-79-9)	n.d.	0.005	CC 1B; TRC 1B
五氧化二砷*** (CAS No.: 1303-28-2)	n.d.	-	CC 1A
三氧化二砷*** (CAS No.: 1327-53-3)	n.d.	-	CC 1A
三乙基砷酸酯*** (CAS No.: 15606-95-8)	n.d.	-	CC 1A
砷酸氫鉛*** (CAS No.: 7784-40-9) (※1)	n.d.	-	CC 1A; TRC 1A
鉻酸鈉*** (CAS No.: 7775-11-3)	n.d.	-	CC 1B; MC 1B; TRC 1B
重鉻酸銨*** (CAS No.: 7789-09-5)	n.d.	-	CC 1B; MC 1B; TRC 1B

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測試報告
(SVHC)

顏昌興業有限公司
臺中市豐原區東陽路420號

物質名稱	成品濃度 (%)	報告極限值 (%)	分類
重鉻酸鉀*** (CAS No.: 7778-50-9)	n.d.	-	CC 1B; MC 1B; TRC 1B
鉻酸鉀*** (CAS No.: 7789-00-6)	n.d.	-	CC 1B; MC 1B
重鉻酸鈉*** (CAS No.: 10588-01-9, 7789-12-0(*))	n.d.	-	CC 1B; MC 1B; TRC 1B
三氧化鉻 *** (CAS No.: 1333-82-0)	n.d.	-	CC 1A; MC 1B
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸 *** (CAS No.: 7738-94-5)	n.d.	-	CC 1B
從三氧化鉻與其它寡聚體生成的酸類: 重鉻酸 *** (CAS No.: 13530-68-2)	n.d.	-	CC 1B
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸與重鉻酸的寡聚體 (*1)	n.d.	-	CC 1B
鉻酸鋯*** (CAS No.: 7789-06-2)	n.d.	-	CC 1B
蔥油 (CAS No.: 90640-80-5) (**)	n.d.	0.05	PBT; vPvB; CC 1B
蔥油, 蔥糊, 輕油 (CAS No.: 91995-17-4) (**)	n.d.	0.05	PBT; vPvB; CC 1B; MC 1B
蔥油, 蔥糊, 蔥餾分 (CAS No.: 91995-15-2) (**)	n.d.	0.05	PBT; vPvB; CC 1B; MC 1B
蔥油, 含蔥量少 (CAS No.: 90640-82-7) (**)	n.d.	0.05	PBT; vPvB; CC 1B; MC 1B
蔥油, 蔥糊 (CAS No.: 90640-81-6) (**)	n.d.	0.05	PBT; vPvB; CC 1B; MC 1B
煤瀝青, 高溫 (CAS No.: 65996-93-2) (**)	n.d.	0.05	PBT; vPvB; CC 1B
鄰苯二甲酸二異丁酯 (DIBP) (CAS No.: 84-69-5)	n.d.	0.05	TRC 1B
2,4-二硝基甲苯 (CAS No.: 121-14-2)	n.d.	0.05	CC 1B
磷酸三 (2-氯乙基)酯 (TCEP) (CAS No.: 115-96-8)	n.d.	0.05	TRC 1B
鉻酸鉛 (CAS No.: 7758-97-6)	n.d.	0.01	CC 1B; TRC 1A
鉬鉻紅；顏色索引: 顏料紅104 (CAS No.: 12656-85-8)	n.d.	0.01	CC 1B; TRC 1A
鉻酸鉛；顏色索引: 顏料黃34 (CAS No.: 1344-37-2)	n.d.	0.01	CC 1B; TRC 1A
丙烯醯胺 (CAS No.: 79-06-1)	n.d.	0.05	CC 1B; MC 1B
硼酸*** (CAS No.: 10043-35-3; 11113-50-1)	n.d.	-	TRC 1B
無水四硼酸二鈉*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	n.d.	-	TRC 1B
水合硼酸鈉 (CAS No.: 12267-73-1) (*2)	n.d.	-	TRC 1B
三氯乙烯 (CAS No.: 79-01-6)	n.d.	0.05	CC 1B
硫酸鈷(二價) *** (CAS No.: 10124-43-3)	n.d.	-	CC 1B; TRC 1B
硝酸鈷(二價) *** (CAS No.: 10141-05-6)	n.d.	-	CC 1B; TRC 1B
碳酸鈷(二價) *** (CAS No.: 513-79-1)	n.d.	-	CC 1B; TRC 1B
醋酸鈷(二價) *** (CAS No.: 71-48-7)	n.d.	-	CC 1B; TRC 1B
乙二醇甲醚 (CAS No.: 109-86-4)	n.d.	0.05	TRC 1B
乙二醇乙醚 (CAS No.: 110-80-5)	n.d.	0.05	TRC 1B
乙二醇乙醚乙酸酯 (CAS No.: 111-15-9)	n.d.	0.05	TRC 1B

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物質名稱	成品濃度 (%)	報告極限值 (%)	分類
鄰苯二甲酸二 (C7-11支鏈與直鏈)烷基酯 (DHNUP) (CAS No.: 68515-42-4)	n.d.	0.05	TRC 1B
聯氨 (CAS No.: 7803-57-8; 302-01-2)	n.d.	0.05	CC 1B
N-甲基吡咯烷酮 (CAS No.: 872-50-4)	n.d.	0.05	TRC 1B
1,2,3-三氯丙烷 (CAS No.: 96-18-4)	n.d.	0.05	CC 1B; TRC 1B
鄰苯二甲酸二 (C6-8支鏈與直鏈)烷基酯，富C7 (DIHP) (CAS No.: 71888-89-6)	n.d.	0.05	TRC 1B
砷酸*** (CAS No.: 7778-39-4)	n.d.	-	CC 1A
砷酸鈣*** (CAS No.: 7778-44-1)	n.d.	-	CC 1A
砷酸鉛*** (CAS No.: 3687-31-8) (※1)	n.d.	-	CC 1A; TRC 1A
疊氮化鉛*** (CAS No.: 13424-46-9)	n.d.	-	TRC 1A
中性斯蒂酚酸鉛*** (CAS No.: 15245-44-0)	n.d.	-	TRC 1A
苦味酸鉛*** (CAS No.: 6477-64-1)	n.d.	-	TRC 1A
鉻酸鉻*** (CAS No.: 24613-89-6)	n.d.	-	CC 1B
氫氧化鉻酸鋅鉀*** (CAS No.: 11103-86-9)	n.d.	-	CC 1A
八氫氧化五鉻酸鋅*** (CAS No.: 49663-84-5)	n.d.	-	CC 1A
甲醛與苯胺的寡聚體 (CAS No.: 25214-70-4)	n.d.	0.05	CC 1B
鄰苯二甲酸二甲氧基乙酯 (CAS No.: 117-82-8)	n.d.	0.05	TRC 1B
鄰甲氧基苯胺 (CAS No.: 90-04-0)	n.d.	0.05	CC 1B
對特辛基苯酚 / 辛基酚 (CAS No.: 140-66-9)	n.d.	0.05	EQC
1,2-二氯乙烷 (CAS No.: 107-06-2)	n.d.	0.05	CC 1B
双(2-甲氧基乙基)醚 (CAS No.: 111-96-6)	n.d.	0.05	TRC 1B
N,N-二甲基乙醯胺 (DMAC) (CAS No.: 127-19-5)	n.d.	0.05	TRC 1B
4,4'-亞甲雙 (2-氯苯胺) (MOCA) (CAS No.: 101-14-4)	n.d.	0.05	CC 1B
酚酞 (CAS No.: 77-09-8)	n.d.	0.05	CC 1B
矽酸鋁，耐火陶瓷纖維 (主要成分濃度於可變範圍內)	n.d.	0.05	CC 1B
鋯矽酸鋁，耐火陶瓷纖維 (主要成分濃度於可變範圍內)	n.d.	0.05	CC 1B
三甘醇二甲醚 (CAS No.: 112-49-2)	n.d.	0.05	TRC 1B
乙二醇二甲醚 (EGDME) (CAS No.: 110-71-4)	n.d.	0.05	TRC 1B
甲醯胺 (CAS No.: 75-12-7)	n.d.	0.05	TRC 1B
甲基磺酸鉛 *** (CAS No.: 17570-76-2)	n.d.	-	TRC 1B
異氰尿酸三縮水甘油酯 (CAS No.: 2451-62-9)	n.d.	0.05	MC 1B
異氰尿酸β-三縮水甘油酯 (CAS No.: 59653-74-6) (※3)	n.d.	0.05	MC 1B
4,4'-二(N,N-二甲氨基)二苯甲酮 (米氏酮) (CAS No.: 90-94-8)	n.d.	0.05	CC 1B
4,4'-(对二甲氨基)二苯基甲烷 (米氏鹼) (CAS No.: 101-61-1)	n.d.	0.05	CC 1B

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物質名稱	成品濃度 (%)	報告極限值 (%)	分類
鹼性紫 3〔內含≥ 0.1% 的米氏酮或米氏鹼〕(CAS No.: 548-62-9)	n.d.	0.05	CC 1B
鹼性藍 26〔內含≥ 0.1% 的米氏酮或米氏鹼〕(CAS No.: 2580-56-5)	n.d.	0.05	CC 1B
溶劑藍 4〔內含≥ 0.1% 的米氏酮或米氏鹼〕(CAS No.: 6786-83-0)	n.d.	0.05	CC 1B
三氧化二硼 *** (CAS No.: 1303-86-2)	n.d.	-	TRC 1B
α、α-二[(二甲氨基)苯基]-4-甲氨基苯甲醇〔內含≥ 0.1% 的米氏酮或米氏鹼〕(CAS No.: 561-41-1)	n.d.	0.05	CC 1B
十溴聯苯醚 (DecaBDE) (CAS No.: 1163-19-5)	n.d.	0.05	PBT
全氟十三酸 (CAS No.: 72629-94-8)	n.d.	0.05	PBT
全氟十二酸 (CAS No.: 307-55-1)	n.d.	0.05	PBT
全氟十一酸 (CAS No.: 2058-94-8)	n.d.	0.05	PBT
全氟十四酸 (CAS No.: 376-06-7)	n.d.	0.05	PBT
4-(1,1,3,3-四甲基丁基)苯酚，乙氧基一 以及所有的被定義的物質，未知成分或可變成分的物質，聚合物和同系物	n.d.	0.05	EQC
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	n.d.	0.05	EQC
偶氮[二]甲醯胺 (CAS No.: 123-77-3)	n.d.	0.05	EQC
六氫苯二甲酸酐 (CAS No.: 85-42-7, 13149-00-3, 14166-21-3)	n.d.	0.05	EQC
甲基六氫苯酐 (CAS No.: 25550-51-0) 4-甲基六氫苯酐 (CAS No.: 19438-60-9) 1-甲基六氫苯酐 (CAS No.: 48122-14-1) 3-甲基六氫苯酐 (CAS No.: 57110-29-9)	n.d.	0.05	EQC
甲氧基乙酸 (CAS No.: 625-45-6)	n.d.	0.05	TRC 1B
支鏈和直鏈1,2-苯二羧二戊酯 (CAS No.: 84777-06-0)	n.d.	0.05	TRC 1B
鄰苯二甲酸二異戊酯 (CAS No.: 605-50-5)	n.d.	0.05	TRC 1B
鄰苯二甲酸正戊基異戊基酯 (CAS No.: 776297-69-9)	n.d.	0.05	TRC 1B
乙二醇二乙醚 (CAS No.: 629-14-1)	n.d.	0.05	TRC 1B
N,N-二甲基甲醯胺 (CAS No.: 68-12-2)	n.d.	0.05	TRC 1B
二氯二丁基錫 (DBTC) (CAS No.: 683-18-1)	n.d.	0.05	TRC 1B
堿式醋酸鉛*** (CAS No.: 51404-69-4)	n.d.	-	TRC 1A
堿式碳酸鉛*** (CAS No.: 1319-46-6)	n.d.	-	TRC 1A
堿式硫酸鉛*** (CAS No.: 12036-76-9)	n.d.	-	TRC 1A
[1,2-苯二羧酸根合]二氧化三鉛*** (CAS No.: 69011-06-9)	n.d.	-	TRC 1A
雙(十八酸基)二氧代三鉛*** (CAS No.: 12578-12-0)	n.d.	-	TRC 1A
C16-18-脂肪酸鉛鹽*** (CAS No.: 91031-62-8)	n.d.	-	TRC 1A
氯基氧鉛鹽*** (CAS No.: 20837-86-9)	n.d.	-	TRC 1A

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測試報告
(SVHC)

顏昌興業有限公司
臺中市豐原區東陽路420號

物質名稱	成品濃度 (%)	報告極限值 (%)	分類
硝酸鉛*** (CAS No.: 10099-74-8)	n.d.	-	TRC 1A
氧化鉛*** (CAS No.: 1317-36-8)	n.d.	-	TRC 1A
四氧化鉛*** (CAS No.: 1314-41-6)	n.d.	-	TRC 1A
氧化鉛與硫酸鉛的複合物*** (CAS No.: 12065-90-6)	n.d.	-	TRC 1A
矽酸鉛*** (CAS No.: 11120-22-2)	n.d.	-	TRC 1A
亞硫酸鉛(II)*** (CAS No.: 62229-08-7)	n.d.	-	TRC 1A
四乙基鉛*** (CAS No.: 78-00-2)	n.d.	-	TRC 1A
三鹼式硫酸鉛 / C.I. 顏料白*** (CAS No.: 12202-17-4)	n.d.	-	TRC 1A
四氟硼酸鉛 (II)*** (CAS No.: 13814-96-5)	n.d.	-	TRC 1A
鈦酸鉛*** (CAS No.: 12060-00-3)	n.d.	-	TRC 1A
鈦酸鉛鋯*** (CAS No.: 12626-81-2)	n.d.	-	TRC 1A
C.I.顏料黃41*** (CAS No.: 8012-00-8)	n.d.	-	TRC 1A
磷酸氧化鉛*** (CAS No.: 12141-20-7)	n.d.	-	TRC 1A
含鉛的矽酸鋇 (※4) (CAS No.: 68784-75-8)	n.d.	0.05	TRC 1A
呋喃 (CAS No.: 110-00-9)	n.d.	0.05	CC 1B
環氧丙烷 (CAS No.: 75-56-9)	n.d.	0.05	CC 1B; MC 1B
硫酸二乙酯 (CAS No.: 64-67-5)	n.d.	0.05	CC 1B; MC 1B
硫酸二甲酯 (CAS No.: 77-78-1)	n.d.	0.05	CC 1B
3-乙基-2-甲基-2-(3-甲基丁基)-1,3-惡唑烷 (CAS No.: 143860-04-2)	n.d.	0.05	TRC 1B
2-(1-甲基丙基)-4,6-二硝基苯酚 (CAS No.: 88-85-7)	n.d.	0.05	TRC 1B
4,4'-二氨基-3,3'-二甲基聯苯基甲烷 (CAS No.: 838-88-0)	n.d.	0.05	CC 1B
4,4'-二氨基二苯醚 (CAS No.: 101-80-4)	n.d.	0.05	CC 1B; MC 1B
4-苯基偶氮基苯胺 (CAS No.: 60-09-3)	n.d.	0.05	CC 1B
2,4-二氨基甲苯 (CAS No.: 95-80-7)	n.d.	0.05	CC 1B
3-甲基-6-甲氧基苯胺 (CAS No.: 120-71-8)	n.d.	0.05	CC 1B
4-胺基聯苯 (CAS No.: 92-67-1)	n.d.	0.05	CC 1A
鄰氨基偶氮甲苯 (CAS No.: 97-56-3)	n.d.	0.05	CC 1B
鄰甲苯胺 (CAS No.: 95-53-4)	n.d.	0.05	CC 1B
N-甲基乙醯胺 (CAS No.: 79-16-3)	n.d.	0.05	TRC 1B
正丙基溴 (CAS No.: 106-94-5)	n.d.	0.05	TRC 1B
全氟辛酸 (PFOA) (CAS No.: 335-67-1)	n.d.	0.05	TRC 1B & PBT
全氟辛酸銨 (APFO)*** (CAS No.: 3825-26-1)	n.d.	-	TRC 1B & PBT
鎘 (CAS No.: 7440-43-9)	n.d.	0.005	CC 1B & EQC
氧化鎘 *** (CAS No.: 1306-19-0)	n.d.	-	CC 1B & EQC
鄰苯二甲酸二戊酯 (DPP) (CAS No.: 131-18-0)	n.d.	0.05	TRC 1B

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測試報告
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物質名稱	成品濃度 (%)	報告極限值 (%)	分類
分支或線性的乙氧化壬基酚，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	n.d.	0.05	EQC
鄰苯二甲酸二己酯 (CAS No.: 84-75-3)	n.d.	0.05	TRC 1B
直接紅28 (CAS No.: 573-58-0)	n.d.	0.05	CC 1B
直接黑38 (CAS No.: 1937-37-7)	n.d.	0.05	CC 1B
巫乙基硫脲 (CAS No.: 96-45-7)	n.d.	0.05	TRC 1B
磷酸三(二甲苯)酯 (CAS No.: 25155-23-1)	n.d.	0.05	TRC 1B
硫化鎘*** (CAS No.: 1306-23-6)	n.d.	-	CC 1B & EQC
醋酸鉛*** (CAS No.: 301-04-2)	n.d.	-	TRC 1A
鄰苯二甲酸二己酯(支鏈和直鏈) (CAS No.: 68515-50-4)	n.d.	0.05	TRC 1B
氯化鎘*** (CAS No.: 10108-64-2)	n.d.	-	CC 1B; MC 1B; TRC 1B; EQC
過硼酸鈉***	n.d.	-	TRC 1B
過氧偏硼酸鈉*** (CAS No.: 7632-04-4)	n.d.	-	TRC 1B

備註：

1. mg/kg = ppm；0.1wt% = 1000ppm
2. n.d.= not detected = below Reporting Limit / 未檢出
3. RL = Reporting Limit / 報告極限值
4. (＊1): 鉻酸與重鉻酸的寡聚體: 因爲其寡聚體是由未知數的鉻酸或與重鉻酸所組成，而導致沒有固定分子量，因此以單體鉻酸或重鉻酸較爲重要並應被考慮。
5. (＊2): 水合硼酸鈉: 依照歐洲化學總署解釋以無水四硼酸二鈉數據作爲代表(歐洲化學總署回信編號 Ref no.: INC 000000032519).
6. "-" = Not Regulated (無規格值)
7. (*): 重鉻酸鈉二水合物(CAS No.: 7789-12-0)含量 = 重鉻酸鈉含量 × 1.1374
8. (**): 上述混合物的濃度是經由所獲得的成分比例介於被選擇標靶物及混合物所推估出來.
9. F 參數換算表：請參閱 http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp
10. 分類：請參閱 http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp

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11. ***: 該物質是由三丁基錫、全氟辛酸或各別元素 (例如: 砷、鉛、六價鉻、硼、鈷、鉬、鎘)之測試結果計算得知.
測試結果如下:

物質名稱	成品濃度 (%)	報告極限值 (%)
三丁基錫 (TBT)	n.d.	0.05
砷 (※2)	n.d.	0.005
鉛	n.d.	0.005
六價鉻	n.d.	0.005
硼 (※2)	n.d.	0.005
鈷	n.d.	0.005

12. (※1): 此砷鉛化合物之濃度是取砷及鉛兩者各別換算出砷鉛化合物濃度，並取其最小值做爲最後出報告之依據.
13. (※2): 被萃取出的溶出硼/砷是以感應耦合電漿原子發射光譜儀檢測得之.
14. (※3): 由於TGIC本身含有β-TGIC，依照ECHA 技術文件 β-TGIC與 TGIC 約爲 1:10 比例，因此β-TGIC將以1/10 的TGIC計算濃度。
15. (※4): 只有在矽與鉛定性結果爲陽性時，再以鉬之濃度換算之。
16. 此份報告取代CC/2014/90149C報告.

樣張

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