

測試報告 Test Report

號碼(No.) : CE/2010/C2725 日期(Date) : 2010/12/22 頁數(Page) : 1 of 7

義芳化學工業股份有限公司

YEE FONG CHEMICAL & INDUSTRIAL CO., LTD.

桃園縣蘆竹鄉海湖村海湖東路377號

NO. 377, HAIHU EAST ROAD, HAIHU VILLAGE, LUCHU HSIANG, TAOYUAN HSIEN, TAIWAN



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : 12%NaOCL
收件日期(Sample Receiving Date) : 2010/12/15
測試期間(Testing Period) : 2010/12/15 TO 2010/12/22

=====
測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

結論(Conclusion) : 根據客戶所提供的樣品，其鎘、鉛、汞、六價鉻、多溴聯苯及多溴聯苯醚的測試結果符合 RoHS(2002/95/EC)及其修定指令之要求 (Based upon the performed tests by submitted samples, the test results of Cadmium, Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs comply with the limits of RoHS Directive 2002/95/EC and its subsequent amendments).



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Report

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測試結果(Test Results)

測試部位(PART NAME)No.1 : 透明黃色液體 (TRANSPARENT-YELLOW LIQUID)

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限值 (MDL) | 結果 (Result) | 法規 限值 (Limit) |
|---|--------------|--|----------------------|----------------|---------------------|
| | | | | No.1 | |
| 鎘 / Cadmium (Cd) | mg/kg | 參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | 100 |
| 鉛 / Lead (Pb) | mg/kg | 參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | 1000 |
| 汞 / Mercury (Hg) | mg/kg | 參考IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. | 1000 |
| 六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction | mg/kg | 參考IEC 62321: 2008方法, 以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS. | 2 | n.d. | 1000 |
| 鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7) | % | 參考EN 14372, 以氣相層析儀/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. | - |
| 鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 000084-74-2) | % | 參考EN 14372, 以氣相層析儀/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. | - |
| 鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 000117-81-7) | % | 參考EN 14372, 以氣相層析儀/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. | - |

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| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | 方法偵測 極限值 (MDL) | 結果 (Result) | 法規 限值 (Limit) |
|--|--------------|--|----------------------|----------------|---------------------|
| | | | | No.1 | |
| 六溴環十二烷 / Hexabromocyclododecane (HBCDD) (CAS No.: 025637-99-4) | mg/kg | 參考US EPA 3540C方法, 以氣相層析/質 譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS. | 5 | n.d. | - |
| 多溴聯苯總和 / Sum of PBBs | mg/kg | 參考IEC 62321: 2008方法, 以氣相層析 儀/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS. | - | n.d. | 1000 |
| 一溴聯苯 / Monobromobiphenyl | | | 5 | n.d. | - |
| 二溴聯苯 / Dibromobiphenyl | | | 5 | n.d. | - |
| 三溴聯苯 / Tribromobiphenyl | | | 5 | n.d. | - |
| 四溴聯苯 / Tetrabromobiphenyl | | | 5 | n.d. | - |
| 五溴聯苯 / Pentabromobiphenyl | | | 5 | n.d. | - |
| 六溴聯苯 / Hexabromobiphenyl | | | 5 | n.d. | - |
| 七溴聯苯 / Heptabromobiphenyl | | | 5 | n.d. | - |
| 八溴聯苯 / Octabromobiphenyl | | | 5 | n.d. | - |
| 九溴聯苯 / Nonabromobiphenyl | | | 5 | n.d. | - |
| 十溴聯苯 / Decabromobiphenyl | | | 5 | n.d. | - |
| 多溴聯苯醚總和 / Sum of PBDEs | | | - | n.d. | 1000 |
| 一溴聯苯醚 / Monobromodiphenyl ether | | | 5 | n.d. | - |
| 二溴聯苯醚 / Dibromodiphenyl ether | | | 5 | n.d. | - |
| 三溴聯苯醚 / Tribromodiphenyl ether | | | 5 | n.d. | - |
| 四溴聯苯醚 / Tetrabromodiphenyl ether | | | 5 | n.d. | - |
| 五溴聯苯醚 / Pentabromodiphenyl ether | | | 5 | n.d. | - |
| 六溴聯苯醚 / Hexabromodiphenyl ether | | | 5 | n.d. | - |
| 七溴聯苯醚 / Heptabromodiphenyl ether | | | 5 | n.d. | - |
| 八溴聯苯醚 / Octabromodiphenyl ether | | | 5 | n.d. | - |
| 九溴聯苯醚 / Nonabromodiphenyl ether | 5 | n.d. | - | | |
| 十溴聯苯醚 / Decabromodiphenyl ether | 5 | n.d. | - | | |

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)

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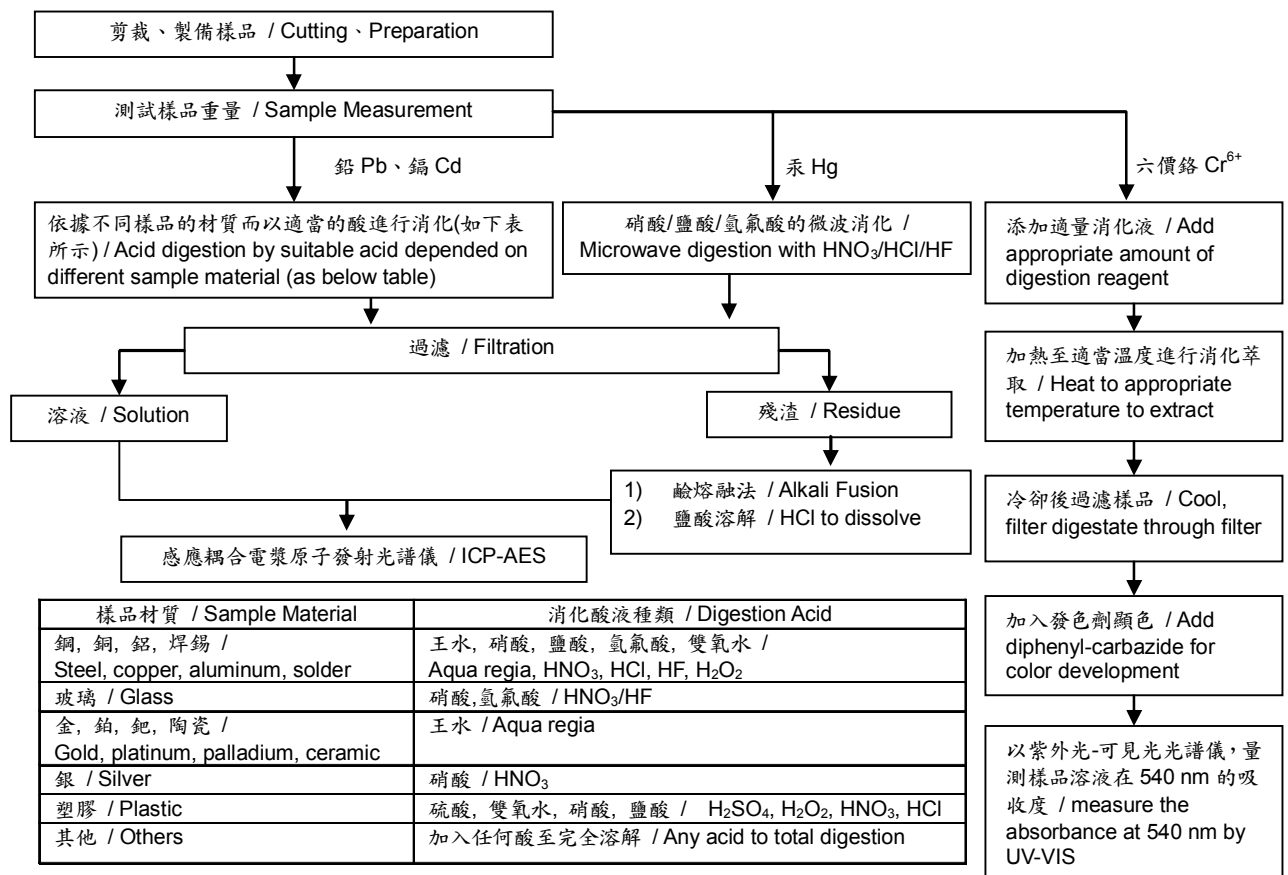
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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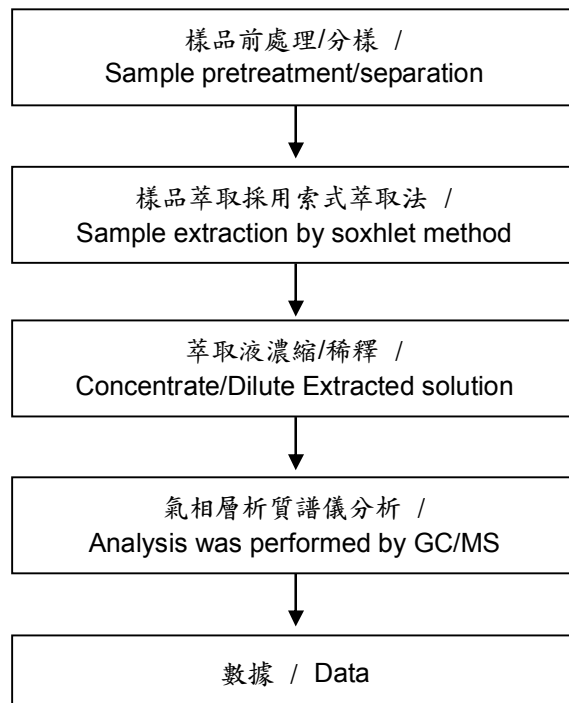


索式萃取(GC/MS)分析流程圖 /

Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- 1) 測試人員：傅莉雅 / Name of the person who made measurement: Lydia Fu
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

■ 測試項目(Test Items): 可塑劑、苯並三唑類化合物、六溴環十二烷、壬酚、單甲基二
溴二苯基甲烷、有機磷化合物 / Phthalate、Benzotriazole、HBCDD、NP、DBBT、
Organic phosphorus compounds



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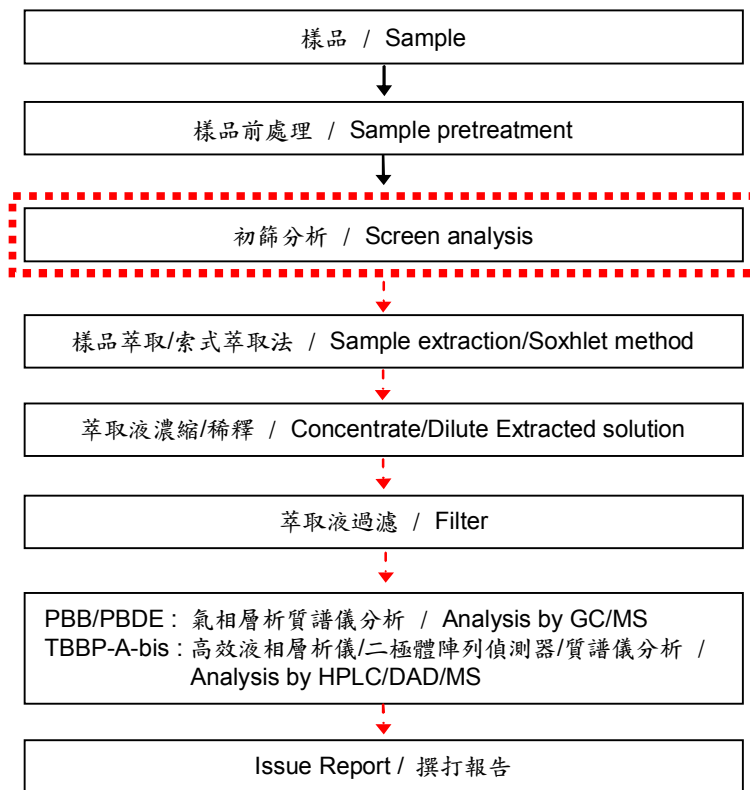
分析流程圖 / Analytical flow chart

1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong

2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

■ 測試項目(Test Items): 多溴聯苯/多溴聯苯醚, 四溴雙酚-A-雙 / PBB/PBDE, TBBP-A-bis

初次測試程序 / First testing process → 選擇性篩檢程序 / Optional screen process 確認程序 / Confirmation process - - - ▶



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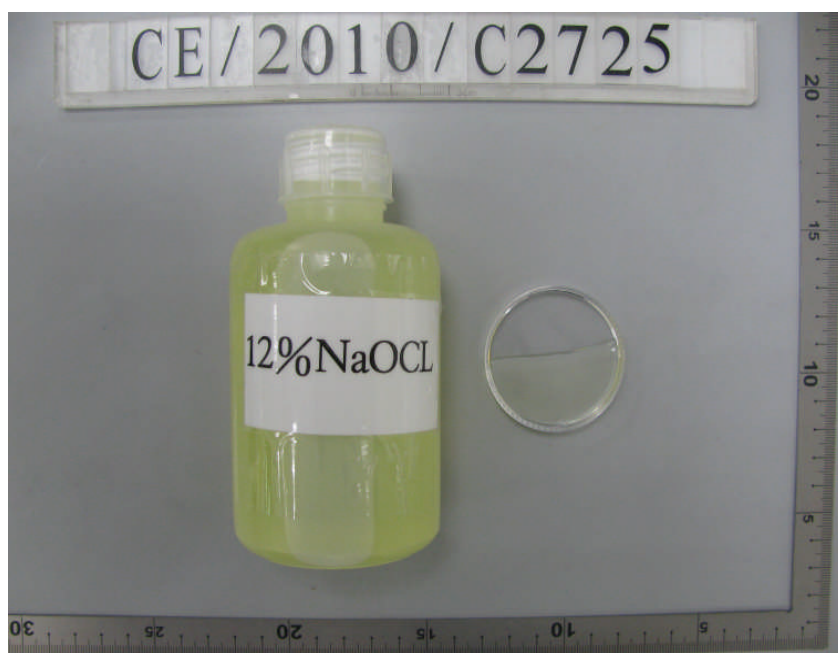
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** 報告結尾 (End of Report) **

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