

## SVHC Assessment Report 高度關注物質評估報告

Applicant 申請廠商: Peiyu Plastics Corporation  
北裕塑膠工業股份有限公司  
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Dajia District, Taichung City 437,  
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台中市大甲區幼獅工業區幼五路 6 號

Number : TWNH00074224  
報告號碼

Date 日期 : Oct 15, 2018

### Sample Description 樣品敘述:

One (1) group of submitted sample said to be :

以下測試樣品乃供應商所提供及確認 :

Sample Description : PVC

樣品名稱

Style / Item No. : A/B

產品型號

Date Sample Received : Oct 05, 2018

收件日期

Date Test Started : Oct 05, 2018

開始測試日期

### Test Conducted 測試執行:

As requested by the applicant, for details please refer to attached pages.

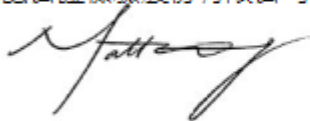
依申請商之要求，細節請參考附頁。

Authorized by 審核者:

On Behalf of Intertek Testing Services

Taiwan Limited

全國公證檢驗股份有限公司



Matt Wang 王政雄

Sr. Manager 資深經理

Signed by 報告簽署人:



Thomas Chou 周世民

Manager 經理



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## Summary 摘要:

According to the client's request, a composite screening test was conducted for the **191** Substances of Very High Concern (SVHC) in the Candidate List promulgated by the European Chemicals Agency (ECHA) on June 27, 2018. For the submitted samples, the content of each SVHC was less than 0.1% (w/w).

依據客戶要求，針對由歐盟化學總署(ECHA)於 2018 年 06 月 27 日所頒佈，列於候選清單中的 **191** 項高度關注物質(SVHC)進行篩檢測試。本送檢樣品中每支 SVHC 的濃度皆小於 0.1%(重量比)。

This assessment report is for reference purposes only. The applicant shall make his/her own judgment as to whether the information provided in assessment report is sufficient for his/her purposes. The screening results shown in this assessment report will be in relation to various factors, including but not limited to the weight or size of dismantled component and composite test approach, etc. If the content of SVHC is out of the threshold, further identification is recommended to obtain the information of SVHC in each material.

本評估報告僅作為參考之用，申請者應自行評估本報告中所提供的資訊是否符合其申請目的。評估結果與許多因素有關，包括拆解後零件的重量、大小，以及混合測試方式等各種因素。如果任何 SVHC 物質超過限值時，建議進一步鑑定，以獲得每一材料 SVHC 的含量。

The thresholds and SVHCs are defined in Article 7 and 57 of Regulation (EC) No 1907/2006 (REACH Regulation). The information is quoted from the ECHA and can be found via following links:

高度關注物質的限值與定義是依據 (EC) No 1907/2006 法規(REACH)第 7 節與第 57 節所規定。相關訊息引用自歐盟化學總署 (ECHA)，相關資料可見於以下連結網站。

- <http://echa.europa.eu/regulations/reach/authorisation>
- [http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)

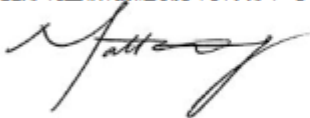
Substances of Very High Concern (SVHC) are classified as 下列物質將被歸類為高度關注物質(SVHC)

- carcinogenic, mutagenic or toxic to reproduction (CMR) classified in category 1 or 2, 歸類於第一或第二類致癌性、致誘變性、致生殖毒性物質(CMR)
- PBT (PBT) or vPvB (vPvB) according to the criteria in Annex XIII of the REACH Regulation, and/or 依據 REACH 法規附錄 13 規定，具持久性、生物累積性、毒性物質(PBT)或高持久性、生物累積性物質(vPvB)物質，與/或
- Identified, on a case-by-case basis, from scientific evidence as causing probable serious effects to humans or the environment of an equivalent level of concern as those above e.g. endocrine disruptors 透過個案研究，以科學證據證明可能造成對人類或環境造成如同上述嚴重影響的物質，例如擾亂內分泌物質。

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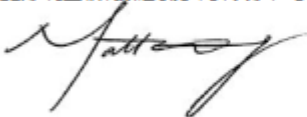
Legal obligations 法律責任

- a. EU and EEA producers and importers of articles have a legal obligation to submit a notification to ECHA with regard to any substance on the Candidate List in their articles, if both the following conditions are met 假如下列兩種情形符合時，歐盟和歐洲經濟區的物品生產者或進口者就有向歐盟化學總署(ECHA)進行任何屬於候選清單中物質的通報法律責任。
  - the substance is present in their relevant articles above a concentration of 0.1% weight by weight, and 該物質存在於物品中且濃度超過 0.1%(重量百分比), 而且
  - the substance is present in their relevant articles in quantities totalling over 1 tonne per year. 該物質存在於物品中且年總量超過 1 噸。
- b. EU and EEA suppliers of articles which contain substances on the Candidate List in a concentration above 0.1% (w/w) have to provide sufficient information to allow safe use of the article to their customers or upon request, to a consumer within 45 days of the receipt of the request. This information must contain as a minimum the name of the substance. 如果物品含有重量百分比超過 0.1% 的高度關注物質時，歐盟和歐洲經濟區的供應者應該在收到要求後 45 天內，提供足夠的資訊給他們的客戶或提出需求者以安全使用該物品，這些資訊至少應包含物質的名稱。

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Test Conducted 測試內容 :

Test Method 測試方法:

By Intertek in-house method 以 Intertek 內部方法

1. Acid digestion or aqueous extraction methods were used and the relevant elements were determined by ICP-OES. 以酸消化或水溶液萃取測試樣品，並用感應耦合電漿原子放射光譜儀分析相關元素。
2. Further confirmation test was performed by UV-Vis (non-metal part) or spot test (metal part) for Cr<sup>6+</sup>. 必要時，六價鉻之確認，非金屬元件以紫外光-可見光分光光度計分析，金屬元件以點測試法確認。
3. Solvent extraction method was used for semi-volatile and non-volatile organic compounds and the relevant compounds were determined by GC-MS, GC-ECD, HPLC-DAD or LC-MS-MS. 半揮發性或不揮發性有機物質以溶劑萃取，並用氣相層析質譜儀，氣相層析儀電子捕捉偵測器，高效液相層析光二極體陣列偵測儀或串聯式液相層析質譜儀分析。

Test Result Summary 測試結果:

| No. | Substance Name 物質名稱   | Result 結果 (ppm)                            |
|-----|---|--|
|     |   | Transparent plastic sheet                  |
| --  | Substances of Very High Concern (SVHC) in the Candidate List<br>候選清單中高度關注物質(SVHC) | All SVHC were not detected<br>所有 SVHC 皆未檢出 |

Remarks: ppm = Parts per million 百萬分之一 = mg/kg 毫克/公斤  
備註 Detection limit = 100 ppm (for each compound)= 偵測極限 (每一個成份)



Test Conducted 測試內容 :

Appendix – 191 Substances of Very High Concern (SVHC) in the Candidate List  
附錄 - 候選清單中的 191 項高度關注物質(SVHC)

| No. | Substance Name<br>物質名稱  | EC Number              | CAS Number   | Reason for<br>Inclusion<br>列入原因         |
|-----|---|------------------------|--|---|
| 1   | Cobalt dichloride 二氯化鈷  | 231-589-4              | 7646-79-9  | Carcinogenic<br>Mutagenic               |
| 2   | Diarsenic pentaoxide 五氧化二砷  | 215-116-9              | 1303-28-2  | Carcinogenic                            |
| 3   | Diarsenic trioxide 三氧化二砷  | 215-481-4              | 1327-53-3  | Carcinogenic                            |
| 4   | Lead hydrogen arsenate 酸式砷酸鉛  | 232-064-2              | 7784-40-9  | Carcinogenic<br>TRC                     |
| 5   | Triethyl arsenate 三乙基砷酸酯  | 427-700-2              | 15606-95-8   | Carcinogenic                            |
| 6   | Sodium dichromate, dihydrate 重鉻酸鈉二水合物   | 234-190-3              | 7789-12-0  | Carcinogenic<br>Mutagenic<br>TRC        |
| 7   | Bis (tributyltin)oxide (TBTO) 三丁基氧化錫  | 200-268-0              | 56-35-9  | PBT                                     |
| 8   | Anthracene 蒽  | 204-371-1              | 120-12-7   | PBT                                     |
| 9   | 4,4'-Diaminodiphenylmethane (MDA) 4,4'-二氨基二苯甲烷  | 202-974-4              | 101-77-9   | Carcinogenic                            |
| 10  | Dibutyl phthalate (DBP) 鄰苯二甲酸二丁酯  | 201-557-4              | 84-74-2  | TRC, EDP                                |
| 11  | 5-tert-Butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)<br>5-叔丁基-2,4,6-三硝基間二甲苯(二甲苯麝香) | 201-329-4              | 81-15-2  | vPvB                                    |
| 12  | Bis(2-ethylhexyl) phthalate (DEHP)<br>鄰苯二甲酸二(2-乙基己基)酯                                     | 204-211-0              | 117-81-7   | TRC, EDP                                |
| 13  | Hexabromocyclododecane (HBCDD) 六溴環十二烷   | 247-148-4<br>221-695-9 | 25637-99-4<br>3194-55-6<br>134237-50-6<br>134237-51-7<br>134237-52-8 | PBT                                     |
| 14  | Benzyl butyl phthalate (BBP) 鄰苯二甲酸苯基丁酯  | 201-622-7              | 85-68-7  | TRC, EDP                                |
| 15  | Short chain chlorinated parafins (C10-13) 短鏈氯化石蠟  | 287-476-5              | 85535-84-8   | PBT                                     |
| 16  | Anthracene oil 蒽油   | 292-602-7              | 90640-80-5   | PBT, vPvB                               |
| 17  | Anthracene oil, anthracene paste, distn. lights 蒽油, 蒽糊, 輕油                                | 295-278-5              | 91995-17-4   | PBT, vPvB,<br>Carcinogenic<br>Mutagenic |
| 18  | Anthracene oil, anthracene paste, anthracene fraction<br>蒽油, 蒽糊, 蒽餾分離液                    | 295-275-9              | 91995-15-2   | PBT, vPvB,<br>Carcinogenic<br>Mutagenic |
| 19  | Anthracene oil, anthracene-low 蒽油, 含蒽量少   | 292-604-8              | 90640-82-7   | PBT, vPvB,<br>Carcinogenic<br>Mutagenic |
| 20  | Anthracene oil, anthracene paste 蒽油, 蒽糊   | 292-603-2              | 90640-81-6   | PBT, vPvB,<br>Carcinogenic<br>Mutagenic |
| 21  | Coal tar pitch, high temp. 煤瀝青, 高溫  | 266-028-2              | 65996-93-2   | PBT, vPvB,<br>Carcinogenic              |



Test Conducted 測試內容 :

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| No. | Substance Name<br>物質名稱   | EC Number              | CAS Number                           | Reason for<br>Inclusion<br>列入原因 |
|-----|--|------------------------|--------------------------------------|---------------------------------|
| 22  | Acrylamide 丙烯醯胺  | 201-173-7              | 79-06-1                              | Carcinogenic<br>Mutagenic       |
| 23  | 2,4-Dinitrotoluene 2,4-二硝基甲苯   | 204-450-0              | 121-14-2                             | Carcinogenic                    |
| 24  | Diisobutyl phthalate (DIBP) 鄰苯二甲酸二異丁酯  | 201-553-2              | 84-69-5                              | TRC, EDP                        |
| 25  | Lead chromate 鉻酸鉛  | 231-846-0              | 7758-97-6                            | Carcinogenic<br>TRC             |
| 26  | Lead chromate molybdate sulphate red (C.I. Pigment red 104)<br>紅色鉬鉻酸鉛硫酸鹽(C.I.紅色 104) | 235-759-9              | 12656-85-8                           | Carcinogenic<br>TRC             |
| 27  | Lead sulfochromate yellow (C.I. Pigment yellow 34)<br>黃色硫化鉻酸鉛(C.I.黃色 34)             | 215-693-7              | 1344-37-2                            | Carcinogenic<br>TRC             |
| 28  | Tris(2-chloroethyl) phosphate (TCEP) 三 2-(氯乙基)磷酸酯                                    | 204-118-5              | 115-96-8                             | TRC                             |
| 29  | Trichloroethylene 三氯乙烯   | 201-167-4              | 79-01-6                              | Carcinogenic                    |
| 30  | Boric acid 硼酸  | 233-139-2<br>234-343-4 | 10043-35-3<br>11113-50-1             | TRC                             |
| 31  | Disodium tetraborate, anhydrous 無水四硼酸二鈉  | 215-540-4              | 1330-43-4<br>12179-04-3<br>1303-96-4 | TRC                             |
| 32  | Tetraboron disodium heptaoxide, hydrate<br>含水七氧化四硼酸二鈉                                | 235-541-3              | 12267-73-1                           | TRC                             |
| 33  | Sodium chromate 鉻酸鈉  | 231-889-5              | 7775-11-3                            | Carcinogenic<br>Mutagenic TRC   |
| 34  | Potassium chromate 鉻酸鉀   | 232-140-5              | 7789-00-6                            | Carcinogenic<br>Mutagenic       |
| 35  | Ammonium dichromate 重鉻酸銨   | 232-143-1              | 7789-09-5                            | Carcinogenic<br>Mutagenic TRC   |
| 36  | Potassium dichromate 重鉻酸鉀  | 231-906-6              | 7778-50-9                            | Carcinogenic<br>Mutagenic TRC   |
| 37  | Cobalt(II) sulphate 硫酸鈷(II)  | 233-334-2              | 10124-43-3                           | Carcinogenic<br>TRC             |
| 38  | Cobalt(II) dinitrate 硝酸鈷(II)   | 233-402-1              | 10141-05-6                           | Carcinogenic<br>TRC             |
| 39  | Cobalt(II) carbonate 碳酸鈷(II)   | 208-169-4              | 513-79-1                             | Carcinogenic<br>TRC             |
| 40  | Cobalt(II) diacetate 醋酸鈷(II)   | 200-755-8              | 71-48-7                              | Carcinogenic<br>TRC             |
| 41  | 2-Methoxyethanol 2-甲氧基乙醇   | 203-713-7              | 109-86-4                             | TRC                             |
| 42  | 2-Ethoxyethanol 2-乙氧基乙醇  | 203-804-1              | 110-80-5                             | TRC                             |
| 43  | Chromium trioxide 三氧化鉻   | 215-607-8              | 1333-82-0                            | Carcinogenic<br>Mutagenic       |



Test Conducted 測試內容 :

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| No. | Substance Name<br>物質名稱   | EC Number                    | CAS Number                    | Reason for<br>Inclusion<br>列入原因 |
|-----|--|------------------------------|-------------------------------|---------------------------------|
| 44  | Acids generated from chromium trioxide and their oligomers 由三氧化鉻和其他低聚合物形成的酸類:<br>Chromic acid 鉻酸<br>Dichromic acid 重鉻酸<br>Oligomers of chromic acid and dichromic acid<br>鉻酸和重鉻酸的低聚物 | 231-801-5<br>236-881-5<br>-- | 7738-94-5<br>13530-68-2<br>-- | Carcinogenic                    |
| 45  | 2-Ethoxyethyl acetate (2-EEA) 乙酸-2-乙氧基乙酯   | 203-839-2                    | 111-15-9                      | TRC                             |
| 46  | Strontium chromate 鉻酸鋇   | 232-142-6                    | 7789-06-2                     | Carcinogenic                    |
| 47  | 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) 鄰苯二甲酸二(C7-11 支鏈與直鏈)烷基酯   | 271-084-6                    | 68515-42-4                    | TRC                             |
| 48  | Hydrazine 肼  | 206-114-9                    | 7803-57-8<br>302-01-2         | Carcinogenic                    |
| 49  | 1-Methyl-2-pyrrolidone (NMP) 1-甲基吡咯烷酮  | 212-828-1                    | 872-50-4                      | TRC                             |
| 50  | 1,2,3-Trichloropropane 1,2,3-三氯丙烷  | 202-486-1                    | 96-18-4                       | Carcinogenic<br>TRC             |
| 51  | 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) 鄰苯二甲酸二(C6-8 支鏈)烷基酯, 富 C7   | 276-158-1                    | 71888-89-6                    | TRC                             |
| 52  | Dichromium tris(chromate) 鉻酸鉻  | 246-356-2                    | 24613-89-6                    | Carcinogenic                    |
| 53  | Potassium hydroxyoctaoxidizincatedi-chromate 氫氧化鉻酸鋅鉀   | 234-329-8                    | 11103-86-9                    | Carcinogenic                    |
| 54  | Pentazinc chromate octahydroxide C.I.顏料黃 36  | 256-418-0                    | 49663-84-5                    | Carcinogenic                    |
| 55  | Formaldehyde, oligomeric reaction products with aniline (technical MDA) 甲醛和苯胺聚合物   | 500-036-1                    | 25214-70-4                    | Carcinogenic                    |
| 56  | Aluminosilicate refractory ceramic fibres (RCF) 矽酸鋁,陶瓷耐火纖維**   | --                           | --                            | Carcinogenic                    |
| 57  | Zirconia aluminosilicate refractory ceramic fibres (Zr-RCF) 矽酸鋁氧化鋯,陶瓷耐火纖維**  | --                           | --                            | Carcinogenic                    |
| 58  | Bis(2-methoxyethyl)phthalate(DMEP) 鄰苯二甲酸二甲氧乙酯  | 204-212-6                    | 117-82-8                      | TRC                             |
| 59  | 2-Methoxyaniline( <i>o</i> -Anisidine) 鄰甲氧基苯胺  | 201-963-1                    | 90-04-0                       | Carcinogenic                    |
| 60  | 4-(1,1,3,3-Tetramethylbutyl)phenol, (4- <i>tert</i> -Octylphenol) 對特辛基苯酚   | 205-426-2                    | 140-66-9                      | PBT, vPvB                       |
| 61  | 1,2-Dichloroethane 1,2-二氯乙烷  | 203-458-1                    | 107-06-2                      | Carcinogenic                    |
| 62  | Bis(2-methoxyethyl) ether 二甘醇二甲醚   | 203-924-4                    | 111-96-6                      | TRC                             |
| 63  | Arsenic acid 砷酸  | 231-901-9                    | 7778-39-4                     | Carcinogenic                    |
| 64  | Calcium arsenate 砷酸鈣   | 231-904-5                    | 7778-44-1                     | Carcinogenic                    |



Test Conducted 測試內容 :

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| No. | Substance Name<br>物質名稱   | EC Number | CAS Number | Reason for Inclusion<br>列入原因 |
|-----|--|-----------|------------|------------------------------|
| 65  | Trilead diarsenate 砷酸鉛   | 222-979-5 | 3687-31-8  | Carcinogenic TRC             |
| 66  | N,N-Dimethylacetamide (DMAC) N,N-二甲基乙醯胺  | 204-826-4 | 127-19-5   | TRC                          |
| 67  | 4,4'-Methylenebis(2-chloroaniline) (MOCA)<br>4,4'-亞甲雙(2-氯苯胺)   | 202-918-9 | 101-14-4   | Carcinogenic                 |
| 68  | Phenolphthalein 酚酞   | 201-004-7 | 77-09-8    | Carcinogenic                 |
| 69  | Lead azide (Lead diazide) 疊氮化鉛   | 236-542-1 | 13424-46-9 | TRC                          |
| 70  | Lead styphnate 收斂酸鉛  | 239-290-0 | 15245-44-0 | TRC                          |
| 71  | Lead dipicrate 苦味酸鉛  | 229-335-2 | 6477-64-1  | TRC                          |
| 72  | 1,2-Bis(2-methoxyethoxy)ethane (TEGDME; Triglyme)<br>三乙二醇二甲醚   | 203-977-3 | 112-49-2   | TRC                          |
| 73  | 1,2-Dimethoxyethane; Ethylene glycol dimethyl ether (EGDME)<br>乙二醇二甲醚  | 203-794-9 | 110-71-4   | TRC                          |
| 74  | Diboron trioxide 三氧化二硼   | 215-125-8 | 1303-86-2  | TRC                          |
| 75  | Formamide 甲醯胺  | 200-842-0 | 75-12-7    | TRC                          |
| 76  | Lead(II) bis(methanesulfonate) 甲基磺酸鉛   | 401-750-5 | 17570-76-2 | TRC                          |
| 77  | 1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (TGIC) 異氰尿酸三縮水甘油酯  | 219-514-3 | 2451-62-9  | Mutagenic                    |
| 78  | 1,3,5-Tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC) β型異氰尿酸三縮水甘油酯   | 423-400-0 | 59653-74-6 | Mutagenic                    |
| 79  | 4,4'-Bis(dimethylamino)benzophenone (Michler's ketone)<br>4,4'-二(N,N-二甲胺基)二苯甲酮   | 202-027-5 | 90-94-8    | Carcinogenic                 |
| 80  | N,N,N',N'-Tetramethyl-4,4'-methylenedianiline (Michler's base)<br>4,4'-亞甲基雙(N,N-二甲苯胺)  | 202-959-2 | 101-61-1   | Carcinogenic                 |
| 81  | {4-[[4-Anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene}dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] {4-[[4-苯胺基-1-萘基][4-(二甲胺基)苯基]亞甲基]環己-2,5-二烯-1-亞基}二甲基氯化銨 (C.I. 鹼性藍 26) | 219-943-6 | 2580-56-5  | Carcinogenic                 |
| 82  | {4-[4,4'-Bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene}dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] {4-[4,4'-雙(二甲胺基)二苯亞甲基]環己-2,5-二烯-1-亞基}二甲基氯化銨 (C.I. 鹼性紫 3)                            | 208-953-6 | 548-62-9   | Carcinogenic                 |





Test Conducted 測試內容 :

Appendix – 191 Substances of Very High Concern (SVHC) in the Candidate List  
附錄 - 候選清單中的 191 項高度關注物質 (SVHC)

| No. | Substance Name<br>物質名稱   | EC Number                                  | CAS Number                                     | Reason for Inclusion<br>列入原因 |
|-----|--|--|--|------------------------------|
| 83  | 4,4'-Bis(dimethylamino)-4'-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (4,4'-雙(二甲基胺基)-4'-(甲基胺基)三苯甲基醇)  | 209-218-2                                  | 561-41-1                                       | Carcinogenic                 |
| 84  | $\alpha, \alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] $\alpha, \alpha$ -雙[4-(二甲基胺基)苯基]-4-(苯基胺基)-1-萘甲醇 (C.I. 溶劑藍 4)   | 229-851-8                                  | 6786-83-0                                      | Carcinogenic                 |
| 85  | Bis(pentabromophenyl) ether (DecaBDE) 十溴聯苯醚  | 214-604-9                                  | 1163-19-5                                      | PBT, vPvB                    |
| 86  | Pentacosafuorotridecanoic acid 全氟十三酸   | 276-745-2                                  | 72629-94-8                                     | vPvB                         |
| 87  | Tricosafuorododecanoic acid 全氟十二酸  | 206-203-2                                  | 307-55-1                                       | vPvB                         |
| 88  | Henicosafuoroundecanoic acid 全氟十一酸   | 218-165-4                                  | 2058-94-8                                      | vPvB                         |
| 89  | Heptacosafuorotetradecanoic acid 全氟十四酸   | 206-803-4                                  | 376-06-7                                       | vPvB                         |
| 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，包括界定明確的物質以及 UVCB 物質、聚合物及同系物  | --   | --   | Equivalent Concern           |
| 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 支鏈及直鏈壬基酚-包括含有 9 個碳烷基鏈之所有獨立同分異構體及所有含有含直鏈或支鏈之 9 個碳烷基鏈 UVCB 物質 | -  | -  | Equivalent Concern           |
| 92  | Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) 偶氮二甲醯胺   | 204-650-8                                  | 123-77-3                                       | Equivalent Concern           |
| 93  | Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) 六氫鄰苯二甲酸酐   | 201-604-9, 236-086-3, 238-009-9            | 85-42-7, 13149-00-3, 14166-21-3                | Equivalent Concern           |
| 94  | Hexahydromethylphthalic anhydride (MHHPA-1) 甲基六氫苯酐<br>Hexahydro-4-methylphthalic anhydride (MHHPA-2) 4-甲基六氫苯酐<br>Hexahydro-1-methylphthalic anhydride (MHHPA-3) 甲基六氫化鄰苯二甲酸酐<br>Hexahydro-3-methylphthalic anhydride (MHHPA-4) 3-甲基六氫苯二甲酸酐  | 247-094-1, 243-072-0, 256-356-4, 260-566-1 | 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9 | Equivalent Concern           |



Test Conducted 測試內容 :

Appendix – 191 Substances of Very High Concern (SVHC) in the Candidate List  
附錄 - 候選清單中的 191 項高度關注物質(SVHC)

| No. | Substance Name<br>物質名稱  | EC Number | CAS Number  | Reason for<br>Inclusion<br>列入原因 |
|-----|---|-----------|-------------|---------------------------------|
| 95  | Methoxy acetic acid 甲氧基乙酸   | 210-894-6 | 625-45-6    | TRC                             |
| 96  | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (PIPP) 1,2-苯二羧二戊酯(支鏈和直鏈) | 284-032-2 | 84777-06-0  | TRC                             |
| 97  | Diisopentyl phthalate (DIPP) 鄰苯二甲酸二異戊酯  | 210-088-4 | 605-50-5    | TRC                             |
| 98  | n-Pentyl-iso-pentyl phthalate (PIPP) 鄰苯二甲酸正戊基異戊基酯   | --        | 776297-69-9 | TRC                             |
| 99  | 1,2-Diethoxyethane 乙二醇二乙醚   | 211-076-1 | 629-14-1    | TRC                             |
| 100 | N,N-Dimethylformamide; Dimethyl formamide (DMFA)<br>N,N-二甲基甲醯胺                            | 200-679-5 | 68-12-2     | TRC                             |
| 101 | Dibutyltin dichloride (DBT) 二丁基二氯化錫   | 211-670-0 | 683-18-1    | TRC                             |
| 102 | Acetic acid, lead salt, basic 鹼式乙酸鉛   | 257-175-3 | 51404-69-4  | TRC                             |
| 103 | Basic lead carbonate (Trilead bis(carbonate) dihydroxide)<br>鹼式碳酸鉛                        | 215-290-6 | 1319-46-6   | TRC                             |
| 104 | Lead oxide sulfate (Basic lead sulfate) 鹼式硫酸鉛   | 234-853-7 | 12036-76-9  | TRC                             |
| 105 | [Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)<br>二鹽基鄰苯二甲酸鉛                         | 273-688-5 | 69011-06-9  | TRC                             |
| 106 | Dioxobis(stearato)trilead 雙(十八酸基)三氧代三鉛  | 235-702-8 | 12578-12-0  | TRC                             |
| 107 | Fatty acids, C16-18, lead salts C16-18 脂肪酸鉛鹽  | 292-966-7 | 91031-62-8  | TRC                             |
| 108 | Lead bis(tetrafluoroborate) 氟硼酸鉛  | 237-486-0 | 13814-96-5  | TRC                             |
| 109 | Lead cyanamidate 氨基氰鉛鹽  | 244-073-9 | 20837-86-9  | TRC                             |
| 110 | Lead dinitrate 硝酸鉛  | 233-245-9 | 10099-74-8  | TRC                             |
| 111 | Lead oxide (Lead monoxide) 一氧化鉛   | 215-267-0 | 1317-36-8   | TRC                             |
| 112 | Lead tetroxide (Orange lead) 四氧化三鉛  | 215-235-6 | 1314-41-6   | TRC                             |
| 113 | Lead titanium trioxide 鈦酸鉛  | 235-038-9 | 12060-00-3  | TRC                             |
| 114 | Lead titanium zirconium oxide 鈦酸鉛鋯  | 235-727-4 | 12626-81-2  | TRC                             |
| 115 | Pentalead tetraoxide sulphate 氧化鉛與硫酸鉛的複合物   | 235-067-7 | 12065-90-6  | TRC                             |
| 116 | Pyrochlore, antimony lead yellow 顏料黃 41   | 232-382-1 | 8012-00-8   | TRC                             |
| 117 | Silicic acid, barium salt, lead-doped 摻雜鉛的矽酸鋇   | 272-271-5 | 68784-75-8  | TRC                             |
| 118 | Silicic acid, lead salt 矽酸鉛   | 234-363-3 | 11120-22-2  | TRC                             |
| 119 | Sulfurous acid, lead salt, dibasic 亞硫酸鉛(II)   | 263-467-1 | 62229-08-7  | TRC                             |
| 120 | Tetraethyllead 四乙基鉛   | 201-075-4 | 78-00-2     | TRC                             |
| 121 | Tetralead trioxide sulphate 三鹼式硫酸鉛  | 235-380-9 | 12202-17-4  | TRC                             |
| 122 | Trilead dioxide phosphonate 磷酸氧化鉛   | 235-252-2 | 12141-20-7  | TRC                             |
| 123 | Furan 呋喃  | 203-727-3 | 110-00-9    | Carcinogenic                    |
| 124 | Propylene oxide; 1,2-Epoxypropane; Methyloxirane<br>1,2-環氧丙烷                              | 200-879-2 | 75-56-9     | Carcinogenic<br>Mutagenic       |
| 125 | Diethyl sulphate 硫酸二乙酯  | 200-589-6 | 64-67-5     | Carcinogenic<br>Mutagenic       |



Test Conducted 測試內容 :

Appendix – 191 Substances of Very High Concern (SVHC) in the Candidate List  
附錄 - 候選清單中的 191 項高度關注物質(SVHC)

| No. | Substance Name<br>物質名稱   | EC Number | CAS Number  | Reason for Inclusion<br>列入原因       |
|-----|--|-----------|-------------|------------------------------------|
| 126 | Dimethyl sulphate 硫酸二甲酯  | 201-058-1 | 77-78-1     | Carcinogenic                       |
| 127 | 3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine<br>3-乙基-2-甲基-2-(3-甲基丁基)噁唑烷  | 421-150-7 | 143860-04-2 | TRC                                |
| 128 | Dinoseb 地樂酚  | 201-861-7 | 88-85-7     | TRC                                |
| 129 | 4,4'-Methylenedi- <i>o</i> -toluidine 4,4'-二氨基-3,3'-二甲基二苯甲烷  | 212-658-8 | 838-88-0    | Carcinogenic                       |
| 130 | 4,4'-Oxydianiline and its salts 4,4'-二氨基二苯醚  | 202-977-0 | 101-80-4    | Carcinogenic<br>Mutagenic          |
| 131 | 4-Aminoazobenzene; 4-Phenylazoaniline 4-氨基偶氮苯  | 200-453-6 | 60-09-3     | Carcinogenic                       |
| 132 | 4-Methyl- <i>m</i> -phenylenediamine (2,4-Toluene-diamine)<br>2,4-二氨基甲苯  | 202-453-1 | 95-80-7     | Carcinogenic                       |
| 133 | 6-Methoxy- <i>m</i> -toluidine ( <i>p</i> -cresidine) 2-甲氧基-5-甲基苯胺   | 204-419-1 | 120-71-8    | Carcinogenic                       |
| 134 | Biphenyl-4-ylamine ; 4-Aminobiphenyl 4-氨基聯苯  | 202-177-1 | 92-67-1     | Carcinogenic                       |
| 135 | <i>o</i> -Aminoazotoluene 鄰氨基偶氮甲苯  | 202-591-2 | 97-56-3     | Carcinogenic                       |
| 136 | <i>o</i> -Toluidine; 2-Aminotoluene 鄰甲苯胺   | 202-429-0 | 95-53-4     | Carcinogenic                       |
| 137 | N-Methylacetamide N-甲基乙醯胺  | 201-182-6 | 79-16-3     | TRC                                |
| 138 | 1-Bromopropane; <i>n</i> -Propyl bromide 1-溴丙烷   | 203-445-0 | 106-94-5    | TRC                                |
| 139 | Cadmium 鎘  | 231-152-8 | 7440-43-9   | Carcinogenic<br>Equivalent Concern |
| 140 | Cadmium oxide 氧化鎘  | 215-146-2 | 1306-19-0   | Carcinogenic                       |
| 141 | Pentadecafluorooctanoic acid (PFOA) 全氟辛酸   | 206-397-9 | 335-67-1    | TRC                                |
| 142 | Ammonium pentadecafluorootanoate (APFO) 全氟辛酸銨  | 223-320-4 | 3825-26-1   | TRC                                |
| 143 | 4-Nonylphenol, branched and linear, ethoxylated<br>[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]<br>支鏈及直鏈乙氧基壬基酚-<br>包括含有 9 個碳烷基鏈及所有含有含直鏈或支鏈之 9 個碳烷基鏈 UVCB 物質、聚合物及同系物，包括獨立同分異構物及複合物 | --        | --          | Equivalent Concern                 |
| 144 | Dipentyl phthalate (DPP) 鄰苯二甲酸二戊酯  | 205-017-9 | 131-18-0    | TRC                                |
| 145 | Cadmium sulphide 硫化鎘   | 215-147-8 | 1306-23-6   | Carcinogenic<br>Equivalent Concern |
| 146 | Lead di(acetate) 醋酸鉛   | 206-104-4 | 301-04-2    | TRC                                |



Test Conducted 測試內容 :

Appendix – 191 Substances of Very High Concern (SVHC) in the Candidate List  
附錄 - 候選清單中的 191 項高度關注物質(SVHC)

| No. | Substance Name<br>物質名稱  | EC Number               | CAS Number                | Reason for Inclusion<br>列入原因                           |
|-----|---|-------------------------|---------------------------|--|
| 147 | 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) C.I. 直接黑 38   | 217-710-3               | 1937-37-7                 | Carcinogenic   |
| 148 | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) C.I. 直接紅 28  | 209-358-4               | 573-58-0                  | Carcinogenic   |
| 149 | Trixylyl phosphate 磷酸三(二甲苯)酯  | 246-677-8               | 25155-23-1                | TRC  |
| 150 | Dihexyl phthalate (DnHP) 鄰苯二甲酸二正己酯  | 201-559-5               | 84-75-3                   | TRC  |
| 151 | Imidazolidine-2-thione; 2-Imidazoline-2-thiol 亞乙基硫脲   | 202-506-9               | 96-45-7                   | TRC  |
| 152 | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 鄰苯二甲酸二己酯 (支鏈和直鏈)   | 271-093-5               | 68515-50-4                | TRC  |
| 153 | Cadmium chloride 氯化鎘  | 233-296-7               | 10108-64-2                | Carcinogenic<br>Equivalent Concern<br>Mutagenic<br>TRC |
| 154 | Sodium perborate; Perboric acid, sodium salt 過硼酸鈉   | 239-172-9,<br>234-390-0 | --                        | TRC  |
| 155 | Sodium peroxometaborate 過氧偏硼酸鈉  | 231-556-4               | 7632-04-4                 | TRC  |
| 156 | 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)<br>2-(2'-羥基-3',5'-二-叔-戊基苯基)苯並三唑  | 247-384-8               | 25973-55-1                | PBT, vPvB  |
| 157 | 2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)<br>2-(2'-羥基-3',5'-二-叔-丁基苯基)-苯並三唑   | 223-346-6               | 3846-71-7                 | PBT, vPvB  |
| 158 | 2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)<br>二正辛基-双(2-乙基己基巯基乙酸酯)錫  | 239-622-4               | 15571-58-1                | TRC  |
| 159 | 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) 二正辛基-双(2-乙基己基巯基乙酸酯)錫和單辛基-三(2-乙基己基巯基乙酸酯)錫的反應物 | --                      | --                        | TRC  |
| 160 | Cadmium fluoride 氟化鎘  | 232-222-0               | 7790-79-6                 | Carcinogenic<br>Equivalent Concern<br>Mutagenic<br>TRC |
| 161 | Cadmium sulphate 硫酸鎘  | 233-331-6               | 10124-36-4,<br>31119-53-6 | Carcinogenic<br>Equivalent Concern<br>Mutagenic<br>TRC |



Test Conducted 測試內容 :

Appendix – 191 Substances of Very High Concern (SVHC) in the Candidate List  
附錄 - 候選清單中的 191 項高度關注物質 (SVHC)

| No. | Substance Name<br>物質名稱   | EC Number              | CAS Number                          | Reason for<br>Inclusion<br>列入原因             |
|-----|--|------------------------|-------------------------------------|---|
| 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 鄰苯二甲酸二(C6-C10)烷基酯:(癸基,己基,辛基)酯與1,2-鄰苯二甲酸的混合物且鄰苯二甲酸二己酯含量 $\geq 0.3\%$   | 271-094-0<br>272-013-1 | 68515-51-5<br>68648-93-1            | TRC   |
| 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] 卡拉花醛及其同分異構化合物  | --                     | --                                  | vPvB  |
| 164 | Nitrobenzene 硝基苯   | 202-716-0              | 98-95-3                             | TRC   |
| 165 | 2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)<br>2,4-二叔丁基-6-(5-氯代苯并三唑-2-基)苯酚  | 223-383-8              | 3864-99-1                           | vPvB  |
| 166 | 2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) 2-(2H-苯並三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚   | 253-037-1              | 36437-37-3                          | vPvB  |
| 167 | 1,3-Propanesultone 1,3-丙烷磺內酯   | 214-317-9              | 1120-71-4                           | Carcinogenic                                |
| 168 | Perfluorononan-1-oi-c acid and its sodium and ammonium salts<br>全氟壬酸及其鈉鹽和銨鹽  | 206-801-3              | 375-95-1<br>21049-39-8<br>4149-60-4 | TRC, PBT                                    |
| 169 | Benzo[def]chrysene (Benzo[a]pyrene)<br>苯並[def]屈(苯並[a]芘)  | 200-028-5              | 50-32-8                             | Carcinogenic<br>Mutagenic<br>TRC, PBT, vPvB |
| 170 | 4,4'-isopropylidenediphenol (bisphenol A; BPA)<br>雙酚 A   | 201-245-8              | 80-05-7                             | TRC, EDP                                    |
| 171 | Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts<br>十九氟癸酸及其鈉鹽與銨鹽   | 206-400-3<br>221-470-5 | 335-76-2<br>3830-45-3<br>3108-42-7  | TRC, PBT                                    |
| 172 | 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]<br>支鏈及直鏈庚基酚-包括含有7個碳烷基鏈之所有獨立同分異構體及所有含有含直鏈或支鏈之7個碳烷基鏈 UVCB 物質 | -                      | -                                   | TRC   |
| 173 | p-(1,1-Dimethylpropyl)phenol<br>對-(1,1-二甲基丙基)酚   | 201-280-9              | 80-46-6                             | TRC   |



Test Conducted 測試內容 :

Appendix – 191 Substances of Very High Concern (SVHC) in the Candidate List  
附錄 - 候選清單中的 191 項高度關注物質(SVHC)

| No. | Substance Name<br>物質名稱  | EC Number | CAS Number | Reason for Inclusion<br>列入原因      |
|-----|---|-----------|------------|-----------------------------------|
| 174 | Perfluorohexane-1-sulphonic acid and its salts (PFHxS)<br>全氟己基磺酸及其鹽類  | --        | --         | vPvB                              |
| 175 | Benz[a]anthracene 苯并[a]蒽  | 200-280-6 | 56-55-3    | Carcinogenic<br>PBT<br>vPvB       |
| 176 | Cadmium nitrate 硝酸鎘   | 233-710-6 | 10325-94-7 | Carcinogenic<br>Mutagenic<br>STOT |
| 177 | Cadmium hydroxide 氫氧化鎘  | 244-168-5 | 21041-95-2 | Carcinogenic<br>Mutagenic<br>STOT |
| 178 | Cadmium carbonate 碳酸鎘   | 208-168-9 | 513-78-0   | Carcinogenic<br>Mutagenic<br>STOT |
| 179 | Chrysene 屈  | 205-923-4 | 218-01-9   | Carcinogenic<br>PBT<br>vPvB       |
| 180 | Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" <sup>TM</sup> ) covering any of its individual anti- and syn-isomers or any combination thereof 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> )(包含任何反式與順式同分異構物或其他組成) | --        | --         | vPvB                              |
| 181 | Reaction products of 1,3,4-thiadiazolidine- 2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]<br>1,3,4-噻二唑-2,5-二巰酮、甲醛與支鏈和直鏈 4-庚基苯酚的反應產物 (含有支鏈和直鏈 4-庚基苯酚重量比大於或等於 0.1%)                                     | --        | --         | EDP                               |
| 182 | Octamethylcyclotetrasiloxane (D4) 八甲基環四矽氧烷  | 209-136-7 | 556-67-2   | PBT, vPvB                         |
| 183 | Decamethylcyclopentasiloxane (D5) 十甲基環五矽氧烷  | 208-764-9 | 541-02-6   | PBT, vPvB                         |
| 184 | Dodecamethylcyclohexasiloxane (D6)<br>十二甲基環六矽氧烷   | 208-762-8 | 540-97-6   | PBT, vPvB                         |
| 185 | Lead 鉛  | 231-100-4 | 7439-92-1  | TRC                               |
| 186 | Disodium octaborate 八硼酸二鈉   | 234-541-0 | 12008-41-2 | TRC                               |
| 187 | Benzo[g,h,i]perylene 苯并[g,h,i]芘   | 205-883-8 | 191-24-2   | PBT, vPvB                         |
| 188 | Terphenyl hydrogenated 氫化三聯苯  | 262-967-7 | 61788-32-7 | vPvB                              |
| 189 | Ethylenediamine (EDA) 乙二胺   | 203-468-6 | 107-15-3   | RSP                               |
| 190 | Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride; TMA) 偏苯三酸酐   | 209-008-0 | 552-30-7   | RSP                               |
| 191 | Dicyclohexyl phthalate (DCHP) 鄰苯二甲酸二環己酯   | 201-545-9 | 84-61-7    | TRC, EDP                          |



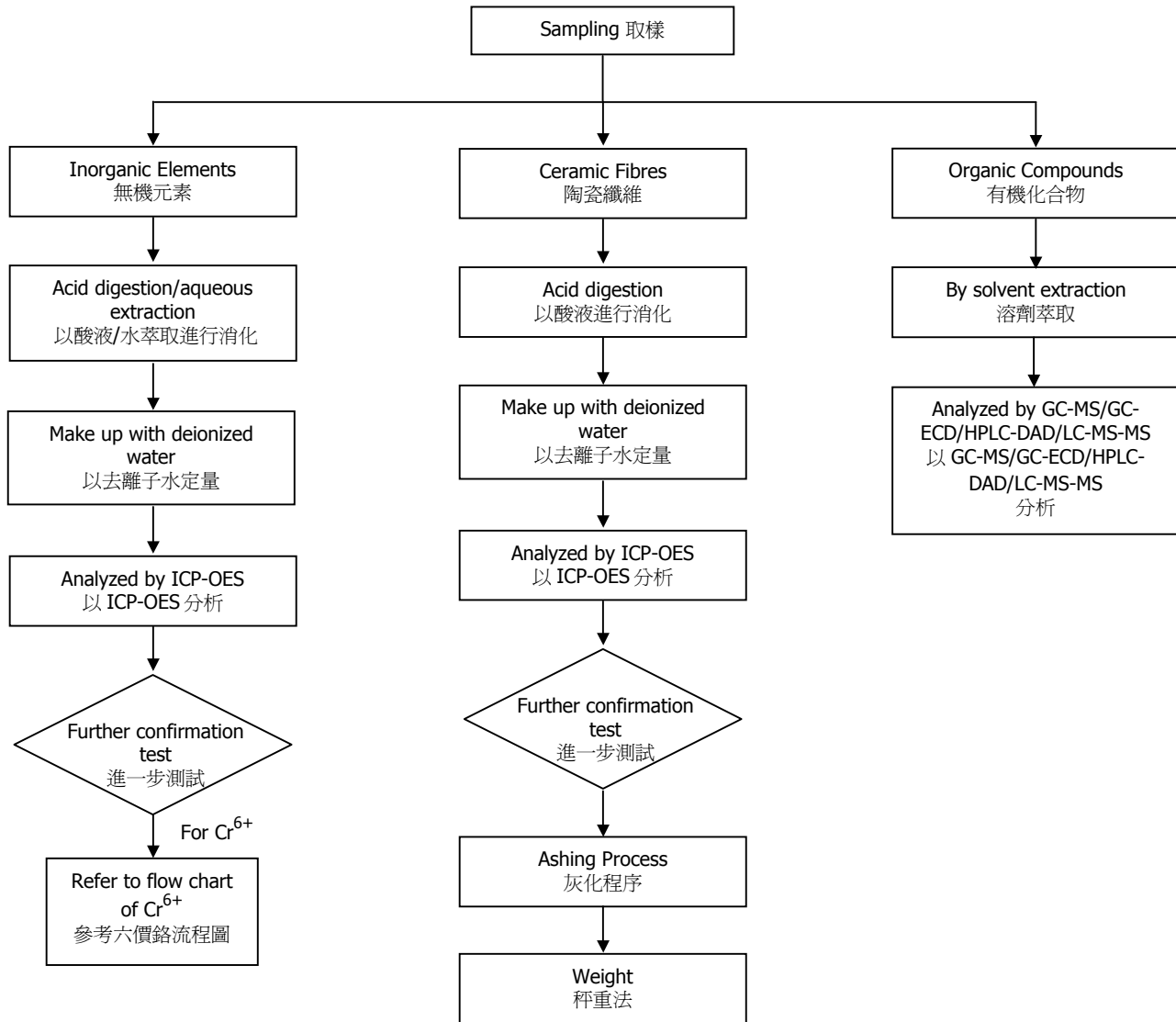
Test Conducted 測試內容 :

Remarks: Carcinogenic = 致癌性  
備註 Mutagenic = 致誘變  
TRC = Toxic for Reproduction 致生殖毒性  
PBT = Persistent, Bioaccumulative and Toxic 持久性、生物累積性、毒性物質  
vPvB = Very Persistent and Very Bioaccumulative 高持久性、生物累積性物質  
EDP = Endocrine Disrupting Properties 內分泌破壞性  
STOT = Specific Target Organ Toxicity after Repeated Exposure 重複暴露後致特定器官毒性  
RSP = Respiratory sensitising properties 呼吸敏感性  
Equivalent concern = 相同危害等級  
\*\* = The Dec 19, 2011 'Aluminosilicate Refractory Ceramic Fibres' and 'Zirconia Aluminosilicate Refractory Ceramic Fibres' listings open the scope of these items from the original listing (Jan 1, 2010). Although these two modified substances are counted as additions to the existing list, they are revisions of the original substance listings to ensure all hazardous versions are covered. As of Jun 18, 2012, these entries have been consolidated; there is now one entry for 'Aluminosilicate Refractory Ceramic Fibres' and one entry for 'Zirconia Aluminosilicate Refractory Ceramic Fibres'.  
"矽酸鋁陶瓷耐火纖維"與"矽酸鋁氧化鋯陶瓷耐火纖維"於 2011 年 12 月 19 日從原來的清單中(2010 年 01 月 01 日)再被提出討論。雖然這兩個物質是以新增加項目的型態被計算於原有清單中，但是它們僅是修訂原有清單資訊以確保所有的危害形態都被包含於清單中。在 2012 年 06 月 18 日時，這些項目被合併起來，所以現在只有各一個"矽酸鋁陶瓷耐火纖維"與"矽酸鋁氧化鋯陶瓷耐火纖維"項目。



Test Conducted 測試內容 :

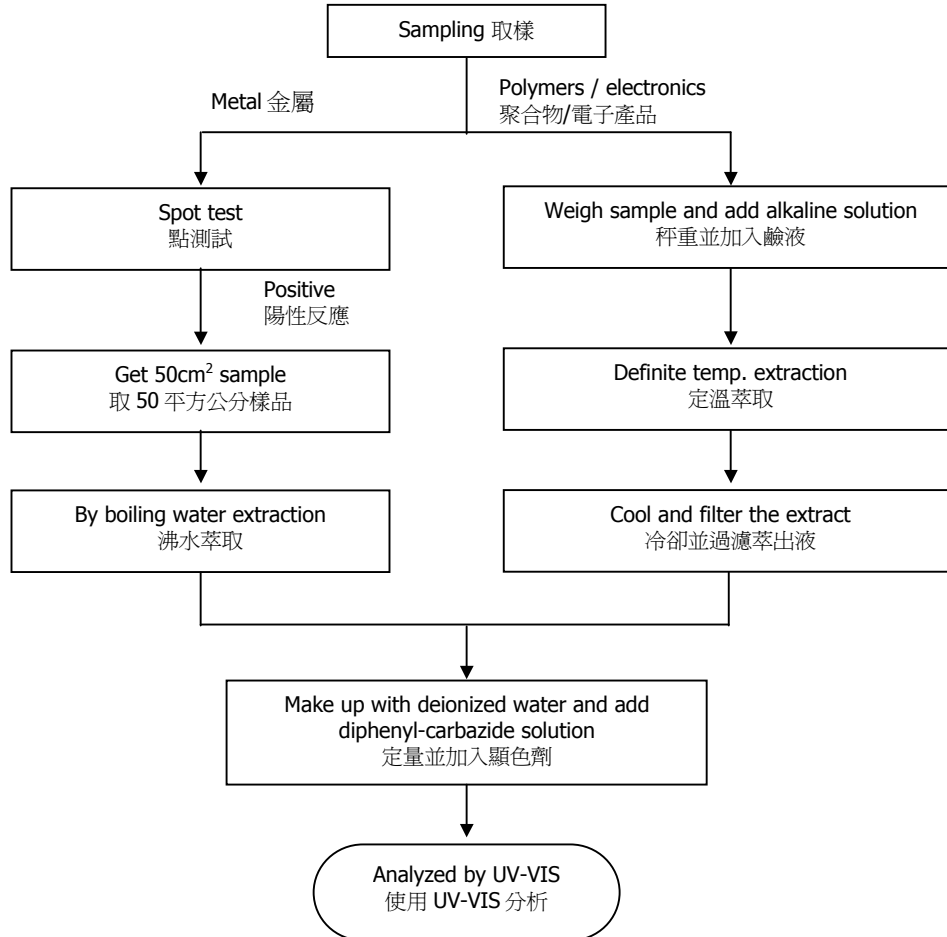
Measurement Flowchart 測試流程圖:





Test Conducted 測試內容 :

## Test for Chromium (VI) Content 六價鉻測試流程圖



Sample photo 樣品照片:



End of Report

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